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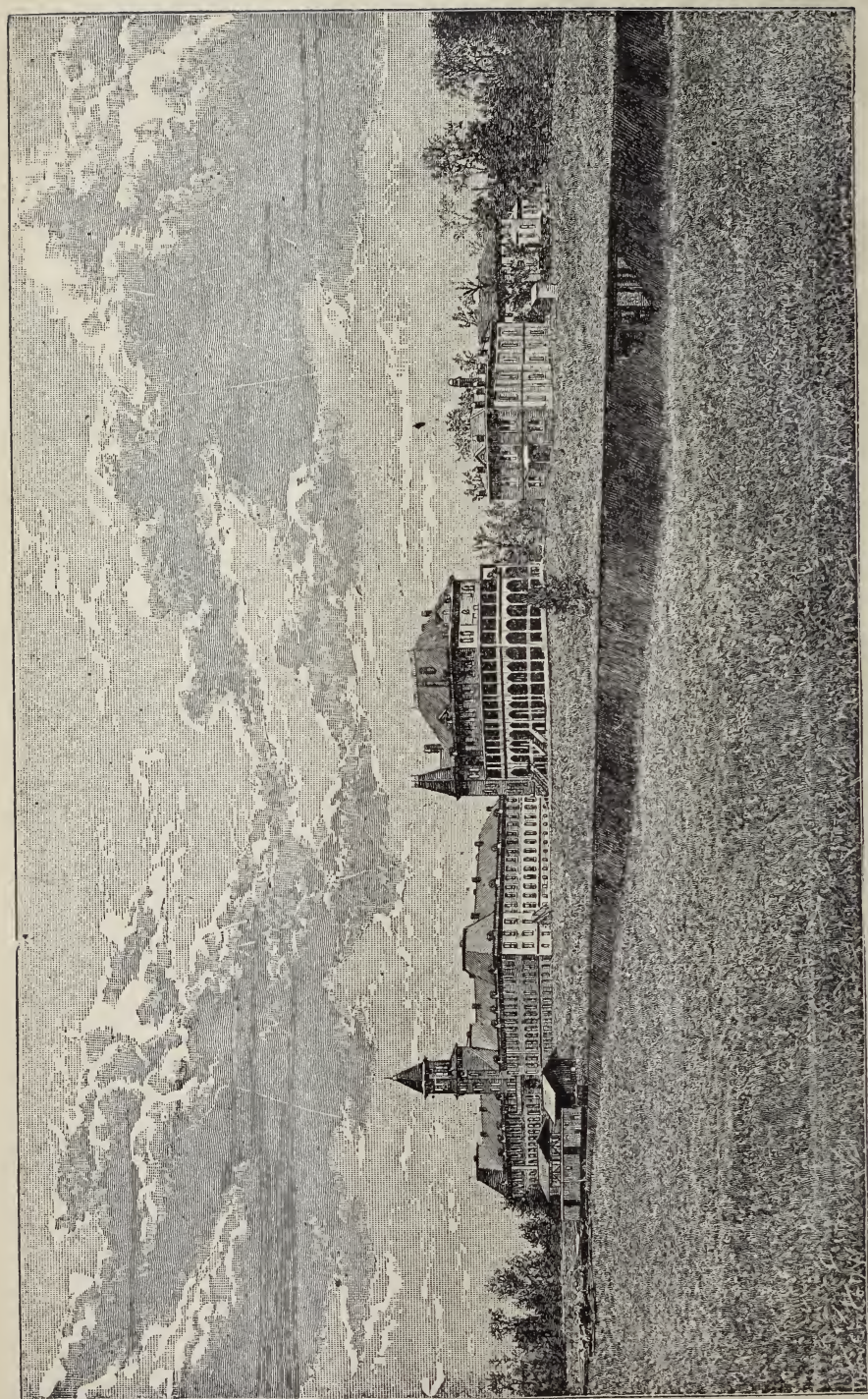


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| PASSMORE, E. L.....     | Canton.....               | Madison.....        | Miss.  |
| PEETS, L. C.....        | Fort Adams.....           | Wilkinson.....      | Miss.  |
| PIERCE, E. F.....       | Starkville.....           | Oktibbeha.....      | Miss.  |
| POINDEXTER, W. R.....   | West Point.....           | Clay.....           | Miss.  |
| PRIESTLEY, T. S.....    | Calhoun Station.....      | Madison.....        | Miss.  |
| PURNELL, M. R.....      | Chotard.....              | Issaquena.....      | Miss.  |
| RICHEY, H.....          | Starkville.....           | Oktibbeha.....      | Miss.  |
| ROBERTSON, G. W.....    | Higdon.....               | Copiah.....         | Miss.  |
| ROBINSON, T. T.....     | Trenton.....              | Smith.....          | Miss.  |
| SALTER, T. E.....       | Plattsburg.....           | Winston.....        | Miss.  |
| SAXON, P.....           | Mayhew.....               | Lowndes.....        | Miss.  |
| SLATON, P.....          | Senatobia.....            | Tate.....           | Miss.  |
| SMITH, C. C.....        | Montgomery.....           | Lincoln.....        | Miss.  |
| SMITH, E. O.....        | Tryon.....                | Lawrence.....       | Miss.  |
| SMITH, W. W.....        | Fort Adams.....           | Wilkinson.....      | Miss.  |
| STILLMAN, K.....        | Starkville.....           | Oktibbeha.....      | Miss.  |
| STOUT, T. P.....        | Mt. Pleasant.....         | Marshall.....       | Miss.  |
| SUDDUTH, W. H.....      | Starkville.....           | Oktibbeha.....      | Miss.  |
| TAYLOR, R. M.....       | Morton.....               | Scott.....          | Miss.  |
| TAYLOR, W. E.....       | Como.....                 | Panola.....         | Miss.  |
| THOMAS, G. M.....       | Yokena.....               | Warren.....         | Miss.  |
| WALKER, W. E.....       | New Orleans.....          | Orleans Parish..... | La.    |
| WATSON, L. S.....       | Bowerton.....             | Copiah.....         | Miss.  |
| WATSON, T. F., JR.....  | Agricultural College..... | Oktibbeha.....      | Miss.  |
| WEST, G. E.....         | Starkville.....           | Oktibbeha.....      | Miss.  |
| WESTMORELAND, C. W..... | Columbus.....             | Lowndes.....        | Miss.  |
| WILLIAMS, C. D.....     | Watson.....               | Marshall.....       | Miss.  |
| WINTER, H. W.....       | Oakland.....              | Yalobusha.....      | Miss.  |
| WORD, T. B.....         | Clarksdale.....           | Coahoma.....        | Miss.  |
| WOODWARD, G. L.....     | Louisville.....           | Winston.....        | Miss.  |
| WYATT, J. R.....        | Tchula.....               | Holmes.....         | Miss.  |
| WYNN, R. A.....         | Charleston.....           | Tallahatchie.....   | Miss.  |
| YOUNG, C. H.....        | Corinth.....              | Alcorn.....         | Miss.  |

## RECAPITULATION

|                                                           |     |
|-----------------------------------------------------------|-----|
| POST GRADUATES.....                                       | 7   |
| SENIORS.....                                              | 15  |
| JUNIORS.....                                              | 24  |
| SOPHOMORES.....                                           | 32  |
| FRESHMEN.....                                             | 77  |
| NUMBER TAKING AN IRREGULAR COURSE IN COLLEGE CLASSES..... | 26  |
| PREPARATORY DEPARTMENT.....                               | 95  |
| Total.....                                                | 276 |

During the session of 1885 and 1886, three students were permitted in each room in the dormitory (100 rooms); making three hundred in the building. The Commandant and Surgeon thought the rooms were too crowded. This fact and the smallness of the appropriation by the Legislature caused the Board to limit the number of students in the dormitory to two for each room (200). At the beginning of the present session (October 6, 1886), 216 registered applications from Mississippi, and fifty-five from other States, had been rejected under the above rule for want of accommodation and teaching force. Of the number actually registered for reception, twenty-three were rejected because they were unable to pass the examination for entrance.

In the effort to equalize attendance among the different counties, the College Classes are necessarily kept small in giving precedence to counties not represented or having small attendance; as from most of these counties, the boys presenting themselves are not far advanced.





# COURSE OF STUDY.

## Collegiate Department.

### FRESHMAN CLASS.

FIRST TERM—Algebra, English, Natural Philosophy, Drawing.

SECOND TERM—Algebra, Agriculture, English, Horticulture.

THIRD TERM—Algebra (6 weeks), Geometry (6 weeks), English History  
English Etymology, Book-Keeping.

Declamation and Composition through entire Session.

### SOPHOMORE CLASS.

FIRST TERM—Geometry, Elementary Chemistry, Rhetoric. Mechanical  
Drawing.

SECOND TERM—Geometry (6 weeks), Trigonometry (6 weeks,) Blowpipe  
Analysis, Rhetoric.

THIRD TERM—Surveying, Agriculture, Chemical Analysis, Preparation  
and Delivery of Addresses.

### JUNIOR CLASS.

FIRST TERM—Analytical Geometry and Mechanics, History of English  
Literature, Free Hand Drawing, Anatomy and Physiology.

SECOND TERM—Mechanics, Veterinary Science, Agricultural Chemistry,  
Horticulture.

THIRD TERM—Entomology, Military Tactics, Botany, General History.  
Addresses prepared in the First Term and delivered in the Second  
Term.

### SENIOR CLASS.

FIRST TERM—Spherical Trigonometry and Astronomy, Chemical Phys-  
ics, Political Economy, Zoology.

SECOND TERM—Civil Engineering, Agriculture, Geology, General Liter-  
ature.

THIRD TERM—Meteorology, Botany, Military Science, Constitution of  
United States and Moral Science, Criticism.

## Preparatory Department.

English Grammar, Composition, Arithmetic, Algebra, to Equations of  
the First Degree, Geography, U. S. History, Agriculture, Penman-  
ship and Declamation.

TEXT-BOOKS—Reed and Kellogg's Graded Lessons in English, Kerl's Eng-  
lish Grammar (Common School Ed.) Thomson's Complete Arithme-  
tic, Wentworth's Complete Algebra, Maury's Manual of Geography,  
Barnes' Brief United States History.



# SPECIMEN EXAMINATIONS

## FOR ENTRANCE INTO THE FRESHMAN CLASS.

### ENGLISH GRAMMAR.

I. Define English Grammar. Name its general divisions and define each.

II. \* \* \* \* \*

III. Name the parts of speech, and give an example of each class.

IV. \* \* \* \* \*

V. How are pronouns divided? Name some pronouns belonging to each class.

VI. Decline these words : fox, I, it, and who.

VII. \* \* \* \* \*

VIII. Compare evil, little, ample, industrious, well, happy, wisely and badly.

IX. Show both by definition and illustration, the difference between an adjective and an adverb.

X. \* \* \* \* \*

XI. \* \* \* \* \*

XII. Name and illustrate the different kinds of verbs. Give a synopsis of the verb know in the active voice.

XIII. \* \* \* \* \*

XIV. Give the principal parts of the verbs be, lie, lay, fly, flee, sit, set, seek, and choose.

XV. \* \* \* \* \*

XVI. \* \* \* \* \*

XVII. Classify sentences with respect both to form and meaning, and illustrate each class.

XVIII. \* \* \* \* \*

XIX. \* \* \* \* \*

XX. Write a complex sentence containing an adjective clause or proposition ; another containing an adverbial clause or proposition.

### UNITED STATES HISTORY.

I. Mention and define the Periods of United States History.

II. \* \* \* \* \*

III. Give a brief outline of each period.

IV. \* \* \* \* \*

V. Mention and define the different forms of colonial government.

VI. What were the causes of the secession of the colonies ?

VII. \* \* \* \* \*

- VIII. \* \* \* \* \*
- IX. Mention the most important battles of the Revolution.
- X. \* \* \* \* \*
- XI. What State was once an independent republic ?
- XII. \* \* \* \* \*
- XIII. Give the principal events of Madison's administration.
- XIV. \* \* \* \* \*
- XV. \* \* \* \* \*
- XVI. Give the principal events of Polk's administration.
- XVII. \* \* \* \* \*
- XVIII. Give the causes that led to the War of Secession.
- XIX. \* \* \* \* \*
- XX. Give the principal battles which were fought during this war.

GEOGRAPHY.

- I. Name the grand divisions of the globe, and the waters that border them.
- II. \* \* \* \* \*
- III. Name the principal mountains, plateaus, rivers, and lakes of each grand division.
- IV. \* \* \* \* \*
- V. Name the countries of Europe, and give their capitals.
- VI. \* \* \* \* \*
- VII. Name the most important commercial cities of the world, and give the approximate population of each.
- VIII. \* \* \* \* \*
- IX. \* \* \* \* \*
- X. What are the staple products of each nation of South America ?

MATHEMATICS.

- I.  $\left( \frac{2\frac{2}{3} + 3\frac{1}{3}}{5\frac{1}{3} - 2\frac{1}{4}} \right) \div \left( 6 \text{ of } \frac{2}{3} \text{ of } 3\frac{1}{7} \right) = (?)$
- II. \* \* \* \* \*
- III.  $\left( \frac{.00516 + .700814}{6.516 - 3.20004} \right) \left( \frac{.1}{.0001} \right) = (?)$
- IV. \* \* \* \* \*
- V. If 5 men in 6 days, working 7 hours a day, can build a wall 80 feet long, 5 feet high and 3 feet thick; how many days will it take 7 men working 10 hours a day to build a wall 90 feet long, 3 feet high and 2 feet thick ?
- VI. \* \* \* \* \*
- VII. Find the interest (simple) on \$318.18, @  $7\frac{1}{2}$  per cent per annum, for five years, 5 months and 5 days.
- VIII. \* \* \* \* \*

IX.  $\sqrt{33333333} = (?)$

X. \* \* \* \* \*

Applicants for admission during session will, in addition to above, be examined in so much of Algebra as the class has passed over up to time of application, about 130 pages Wentworth's Complete Algebra on January 1.

Specimen Examination for Admission into the Preparatory Department.

1st. Reading from some standard work.

2d. Spelling upon the blackboard such words as these : sincere, separate, ceiling, freight, dairy, imitate, business, necessary, transferred, decimal, receive, believe, etc.

3d. Grammar.

Define a sentence. Name the principal parts of every sentence. Name all the parts of speech.

Write a sentence containing an adjective and an adverb. Analyze it, and parse all the words in it.

Give two rules for the use of the period ; three rules for the use of capital letters.

4th. Arithmetic.

Oral Exercises—Count by 9's from 3 to 66 ; also by 7's from 51 back to 2.

If a man earn \$65 a month, and spend \$47, how much will he save in five months ?

Add 2-5 and 3-8. Subtract 2-3 from 8-9.

Written Exercises—Multiply 3-4 by 4 in 2 ways. Divide 6-7 by 3 in two ways. Add 1 3-4, 3 2-7 and 1-2 of 9.

From 2-3 of 9-10 take 1-12 of 2.

If 6-7 of a bushel of apples cost 3-5 of a dollar, what will the whole bushel cost ?

Add fifteen and fifteen millionths, five hundred and eighty-five ten-thousandths, twenty-five thousandths, and one and one-tenth.

Multiply twenty-five thousand by twenty-five thousandths.

Divide forty-two ten thousandths by six hundredths.

Reduce  $\frac{7}{8}$  to a decimal fraction. Reduce .625 to a common fraction.

These questions, of course, serve merely as an indication of what the applicant is required to know before he can enter the Preparatory Department, and apply to those only who enter at the beginning of the session. Those who arrive after the opening of the Session, will not only be given such an examination as the above, but will also be examined on the various studies of the Preparatory class as far as that class may then have progressed in those studies. For instance, applicants for admission on or about the first of January, will, in addition to the examination required at the first of the session, be examined on the studies which the Preparatory students passed over from October to January; namely, Arithmetic, to Percentage; English Grammar, through the Analysis of Compound and Complex sentences ; and Geography to the Map of Asia.

## OBJECTS AND HISTORY OF THE COLLEGE.

The College owes its origin to the Act of the General Government passed in 1862, to encourage the establishment of Industrial Colleges in the States, to benefit "agriculture and the mechanic arts." This Act, among other things, provided for the "endowment, support and maintenance in each State of at least one College, where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts in such manner as the legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes."

The status of the Agricultural Land Scrip Fund, donated by the United States Government, is as follows: The scrip represented 207,920 acres of public land, which was sold for about ninety cents per acre, realizing in currency \$188,928. This amount, by judicious management, has been increased to \$227,150, which is now in the State Treasury, represented by twenty-year bonds, running from 1876 to 1896, bearing five per cent. interest per annum.

The Legislature, by an Act, February 28, 1878, divided this fund equally between Alcorn University and this College, giving to each \$113,575. A subsequent Legislature authorized the sale of \$15,000 worth of the bonds to purchase lands—so that the amount now in the State treasury to the credit of this College is \$98,575, yielding an income annually to the College of \$4,928.75, which is all that is derived from this source.

The Legislature of Mississippi, in accepting this endowment or trust fund from the General Government, prescribed the following in the powers given to the Board of Trustees:

"The establishment and maintenance of a first-class institution, at which the youth of the State may acquire a common school education, and a scientific and practical knowledge of agriculture, horticulture, and the mechanic arts; also the proper growth and care of stock, without, however, excluding other scientific and classical studies, including military tactics.

"They shall regulate the course of study, rates of tuition, management of experimental farm, manner of performing labor, and the kind of labor to be performed by students."

These two Acts of the General and State Governments plainly define the objects of the College. The "leading object" must be, "to benefit



agriculture and the mechanic arts." Should other studies be taught than those relating to these interests; they should be considered secondary, and rather as instruments to more readily comprehend the sciences which underlie agriculture and the mechanic arts.

The complexion of the College must be such as to familiarize students with the leading objects as set forth in the acts—to educate and direct their minds and tastes to agriculture, horticulture, care and growth of stock, management of farms, manner of performing labor, and the mechanic arts. The College is not to be in the strictest sense either literary, classical or military, but rather a College to give the industrial classes a general education, combined with such scientific and practical knowledge as will make them familiar with the nature of the objects and forces with which they have to deal.

This necessitates that special stress should be laid on the sciences, such as Chemistry, Botany, Geology, Zoology, Entomology, Physiology, Mechanics, Mathematics, Physics, etc., which underlie agriculture. To understand properly these sciences a very liberal culture, especially in English, is requisite. The foundation of "liberal culture" must be proportionately as systematic and thorough as that required to comprehend what are (sometimes) called the learned professions. The varied conditions contributing to an intelligent understanding of agriculture as a science and an art comprehend an education as broad and liberal as that needed in mastering any profession. The education must necessarily, however, differ in kind. Students, whose education is intended to promote the interests designated in the acts, must omit some studies taught in other colleges looking to general or special training. The education, too, is to be practical and industrial; students must be familiar not only with farms and labor, but must also labor themselves, and in this labor find a part of their education, the object of which is to create a taste for agricultural pursuits and to fix and preserve habits of industry.

In conformity with the acts designated, the Board of Trustees located the Agricultural and Mechanical College of Mississippi one and a half miles from the town of Starkville, in Oktibbeha county, 422.4 feet above sea level.

The College is on a permanent basis, the Legislature having given ample appropriations for the necessary buildings and their equipment, and having provided liberally for its support.

The Trustees have provided for a Preparatory and a Collegiate course, which will afford the youth of the State ample means of acquiring, in accordance with the law, a thorough elementary education, and a scientific and practical knowledge of Agriculture and the Mechanic Arts.

The large number of students in attendance each year shows that the college supplies a necessity to the people of the state in giving a thoroughly practical education to its youth. It seems that a large class of people desire the young men of the State to combine labor with theoretical instruction; and this is a correct idea where boys are to be educated for



farm life. This training should be in connection with a farm where industrious habits, already obtained, may be preserved, or may be acquired by those not having them already. Study for four years without the habit of manual labor creates a disinclination for work, and tends to separate brain work and manual labor, giving discredit to the latter.

The development of our agricultural interests necessitates that theory and practice go together in the education of the farmer. If this is true of other professions, why not with the farmer? The labor feature corresponds with the technical and expensive instruction that is given at West Point and Annapolis in the numerous drills, encampments, cruises, etc.; that is given in the hospitals and dissecting rooms of medical colleges,—in the moot courts of the law school,—in the field work of the engineer,—in the shops of the mechanic.

The instruction given in the way of education in the academic and scientific departments is of the highest importance, and nothing can take precedence over it. The industrial features come next, and with them is joined the assistance which a student, by his work, can obtain pecuniarily. It differs from the old manual labor school in this: there the important matter was to work enough to pay all expenses. The education received was of secondary consideration, compared with earning enough money to pay one's way. The boy who labors most of his time is too tired physically to accomplish much in his studies; whereas moderate labor facilitates study. It is desirable that this feature should be understood in connection with this College. It must not be thought that a boy can work his way through by his labor, and also get a first-class education. It is impossible to do both. He could not accomplish it if he had a school at home at his very door. A student here has many advantages; he not only gets his tuition free from the State, but he has an opportunity to work and pay for half or more of his board by his labor. At home he would still have to incur expense of board and clothing, which are unavoidable in attending school under any conditions.



## DEPARTMENT OF BIOLOGY AND GEOLOGY.

D. L. PHARES, PROFESSOR.

### JUNIOR CLASS.

FIRST TERM—ANATOMY AND PHYSIOLOGY are taught by lectures, illustrated by skeletons, mounted and unmounted ; fine life-size drawings colored from nature ; alcoholic preparations and dissections, showing the comparative structures of the organs of sense, digestion, circulation, respiration, locomotion, etc., their situation, their appearance in health and disease, their interdependence and their relations to hygiene.

SECOND TERM—This term is occupied by lectures on breeds, breeding, and management of sound and sick animals with examinations of them by the class.

THIRD TERM—BOTANY, structural, physiological, descriptive and economic, is taught practically ; the class making dissections under the microscope and analyzing from 70 to 100 fresh plants.

### SENIOR CLASS.

FIRST TERM—To ZOOLOGY, in its various phases of development from the microbe to man, one hour is given daily.

In these studies students have the use of skeletons, plates, thousands of specimens, twelve high power compound microscopes of modern construction and recent improved accessories.

SECOND TERM—GEOLOGY is taught in its relations to lithology, mineralogy, soils and its agricultural, architectural and other economic applications.

THIRD TERM—The study of BOTANY is resumed with special reference to development, tissues, morphology and microscopic organisms in their relations to health and diseases.

## DEPARTMENT OF AGRICULTURE.

F. A. GULLEY, PROFESSOR, AND SUPERINTENDENT OF FARM.

Instruction in Agriculture is given by lectures, divided into three courses, occupying the entire College year.

**SENIOR CLASS—First Term.** Farm economy, principles of stock-feeding, nutritive ration, value of different foods and manures, preparation and application of manures and fertilizers, composting, green manuring, adaptation of soils to crops, special crops, rotation of crops, cultivation, planning and erecting farm buildings.

**FRESHMAN CLASS—Second Term.** History, characteristics, breeding, and care of the breeds of domestic animals; butter-making.

**SOPHOMORE CLASS—Third Term.** Principles of drainage, effect of an excess of soil-water on cultivation, surface and sub-soil drains, contamination of wells and cisterns, laying tiles and sewers, hill-side ditching, controlling streams, preventing soils from washing, use and care of farm implements and machinery with field practice.

Instruction in the Department of Agriculture embraces not only the lectures of the class-room, but the knowledge gained by the student in the regular work of the field, and in an intimate association, during his whole course, with a large and well equipped farm.

The department is under the immediate supervision of the Professor of Agriculture; which fact affords opportunities to illustrate in actual practice the theories taught in the class-room.

The compulsory student-labor system is made a prominent feature, and is considered educational, not only in teaching the student how to do certain things, but also in making him familiar with the various industrial operations of the institution and interested in them.

The College owns 1,762 acres of land, divided into cultivated fields, pastures, orchards, ornamental grounds, etc.

A considerable portion of the farm is cultivated with special reference to providing for the student labor that will be instructive. The larger part of the farm is devoted to the production of commercial products, and the general crops of a diversified system of husbandry, including stock-growing and dairying. In somewhat similar Colleges, even where student labor is required, it is deemed sufficient to furnish just enough labor to employ the student during a limited part of the course, having simply specimen farms, herds, etc. The College provides for the student not merely experiment work, but a business farm. Instead of specimen crops on a small scale, that the student can only see, he helps to cultivate

crops that vary in extent from ten to one hundred and fifty or more acres.

To illustrate the varieties of breeds, a herd is provided, enabling the student to become familiar with the work of caring for several hundred animals, as well as to study the peculiarities of the various breeds.

Opportunity is given the student to compare the "theory" of Agriculture with the "practice;" he soon becomes an interested critic, and is enabled to judge with considerable accuracy, as to the value of the principles taught in relation to the art.

At the close of the course in Agriculture, questions pertaining to the details of the entire work of the farm constitute a part of the regular examinations.





## DAIRY HUSBANDRY.

A special course in Dairy Husbandry is provided, covering the theory of breeding dairy stock, feeding for milk, and of making and shipping milk, cream, butter and cheese, and the practical method of working in different sections of the country. Facilities are provided for practical work in the College Creamery for young men, regular students and others, who desire to fit themselves for taking charge of creameries in the State.

### MEANS OF ILLUSTRATION---FARM DEPARTMENT.

Seventeen hundred and fifty acres of land, of which six hundred acres are under cultivation, including garden and grounds ; barns, stables, pig-pens, and other buildings, built on approved plan with modern conveniences, with capacity for 200 head of cattle and 12 mules ; 200 head of pure-bred, grade and native cattle, including Holsteins, Jerseys, Herefords, Devons and Galloways ; a full and complete outfit of farm machinery and implements, including steam-engine, cane mill, evaporator, thresher, feed mill, fanning mill, sheller, ensilage cutter, Kemp's manure spreader, Pennock's road and ditching machine, reapers, mowers, roller grain drills, corn and cotton planters, and a variety of plows, harrows and cultivators for one, two and three mule teams, from the principal manufacturers of the country ; the growing of all crops adapted to this latitude, ensilaging green crops, working up sugar-cane and sorghum experiments in stock feeding and growing crops.

A working Creamery with full outfit of the best machinery, including the de Laval cream separator. Butter is made and forwarded to market daily during the year.

The Library contains works of reference on all branches of agriculture and allied sciences, and the reading room is supplied with all the best agricultural papers and periodicals published in the country.

## DEPARTMENT OF HORTICULTURE.

A. B. McKay, ACTING PROFESSOR AND SUPERINTENDENT OF GARDEN,  
ORCHARDS, NURSERY AND GROUNDS.

**FRESHMAN CLASS—SECOND TERM**—Instruction in the class-room is given by lectures on the following topics : Location and preparation of garden and orchard lands ; Drainage—Manures—Their preparation and application to different plants ; Construction and management of hot beds, cold-frames, flower-pits and propagating houses ; When and how to plant seeds, trees, vines ; etc. : The common insects injurious to garden and orchard products, and how to destroy them ; Budding, grafting and other subjects incidental to the department.

**JUNIOR CLASS—SECOND TERM**—The following are some of the subjects discussed : Garden, orchard and nursery economy ; Varieties best adapted to different soils and latitudes ; The pruning and training of trees and vines ; The best methods of gathering, packing and shipping horticultural products to distant markets ; Of preserving and keeping vegetables and fruits, and of saving seeds ; Designs and management of ornamental grounds.

**THIRD TERM—JUNIOR CLASS**—Economic Entomology ; Text book.

In addition to the above course of instruction, each student will be required from time to time to prepare essays on horticultural topics. This exercise is intended to elicit thought, stimulate original investigation and encourage reading.

While at his daily work in the garden the student not only becomes acquainted with the different vegetables, but with his own hands he plans, cultivates and harvests the garden products.

In the orchard, vineyard and nursery he learns by actual practice the art of propagating from seeds, cuttings, layers, budding and grafting ; he also prunes the trees and vines, gathers, packs and ships the fruit—thus acquiring skill, and such knowledge of the business as can be obtained in no other way.

### MEANS OF ILLUSTRATION.

Orchards, vineyard and nursery of several thousand trees, plants and vines of approved varieties. Twelve acres in strawberries and one in raspberries, hot beds, cold frames, garden implements, specimens of fruits preserved in liquids.

Entomology.—A cabinet of insects, to which specimens are added during each session. Microscope magnifiers and instruments.

The college library contains books and periodicals on horticultural topics.

## DEPARTMENT OF CHEMISTRY & PHYSICS.

JOHN A. MYERS, PROFESSOR.

The aim of the Department of Chemistry is to give the student a clear understanding of the subjects so far as taught in the branches of science studied in this Department, and to fit him as far as possible to comprehend and apply the forces of nature, as he meets with them in the routine of life. The time devoted to each branch being necessarily short, it is not expected to develop specialists in any of the branches, unless the students remain for a Post-Graduate Course, in which case ample time and facilities will be placed at their disposal.

The regular course of study is as follows :

### METEOROLOGY.

SENIOR CLASS—SPRING TERM—Instruction is given by lectures. The topics discussed are : Composition and weight of the atmosphere ; laws of circulation ; cyclonism and anti-cyclonism ; changes of pressure ; instruments used in taking observations in meteorology ; thermal currents ; force of solar radiation ; phenomena of light ; atmospheric electricity ; ozone ; auroras ; moisture ; evaporation and condensation ; clouds, rain, hail and snow ; weather prognostications ; frost ; cyclones ; tornadoes, and water spouts ; characteristic types of weather ; climate ; influence of climates upon plants, animals and man ; influence of climate upon the industrial development and the health of a people. Practice in use of instruments, as far as possible in the application of principles throughout the course.

### CHEMICAL PHYSICS.

SENIOR CLASS—FIRST TERM—Text-book, Pynchon's Introduction to Chemical Physics.

### AGRICULTURAL CHEMISTRY.

JUNIOR CLASS—THIRD TERM.—Instruction is given by lectures ; the topics considered are : elements required for plant growth ; organic constituents of plants ; albumenoids, alkaloids ; carbohydrates, starches, sugars, gums, etherial oils, organic acids ; coloring matters of plants ; processes of plant growth ; carbonic acid and humas ; the nitrogen of the plant—whence derived ; quantities required, and its influence upon plant development ; hydrogen, oxygen, and water ; the proper regulation of the supply of water ; inorganic ingredients of the soil ; how they become available for plant food ; the origin of soils ; processes by which soils become exhausted ; processes by which fertility is restored and retained. Fertilizers—their collection, preparation, and application ; chemistry of

stock-feeding ; chemistry of the dairy ; fermentation ; utilization of waste products.

Students taking this course of lectures must have studied elementary, chemistry, as otherwise the lecture will not be intelligible to them.

#### ELEMENTARY CHEMISTRY.

**SOPHOMORE CLASS—FIRST TERM.**—Instruction is imparted by lectures and experiments, with Cooley's New Chemistry for reference. This is supplemented by lectures upon organic chemistry.

**SOPHOMORE CLASS—SECOND TERM.**—Students during this term work two hours per day in the laboratory upon blow-pipe analysis and determinative mineralogy.

**SOPHOMORE CLASS—THIRD TERM.**—The class work in the laboratory during the whole of this term is wet analysis, students working two hours a day in the testing of elementary substances, salts, mixtures, marls ashes, soils, manures, and commercial products.

The course of instruction in laboratory work is especially thorough, laying a good foundation for future work, should students desire to pursue the study further. It is also a good training, both of the powers of observation and of the reasoning powers.

Students have very superior facilities here for the study of practical chemistry, and it is the desire of the College authorities that as many as possible should avail themselves of its advantages by taking Post-Graduate courses.

#### ELEMENTARY PHYSICS.

**FRESHMAN CLASS, SPRING TERM.**—Text-book, Cooley's Natural Philosophy.

#### MEANS OF ILLUSTRATION.

**IN METEOROLOGY**—The College is supplied with most of the instruments used by the U. S. Signal Service. Regular meteorological observations are taken at the College, to which the students have free access, so that they may become familiar with the workings of the Service.

**IN CHEMISTRY**—The supply of apparatus is large, and embraces all departments of the subject. The student has very superior advantages in this department, and the College has facilities for carrying on all kinds of analytical work connected with agriculture. The laboratory of the State Chemist also gives the student ample facilities for becoming acquainted with the character and qualities of all fertilizers sold in the State, and may render him familiar with the character of various agricultural products.

In Natural Philosophy there is a sufficient amount of apparatus to illustrate many of the principles, and while not so complete as for the illustration of chemistry, yet it is by no means indifferent, and the student has the benefit of seeing many of the most important experiments in sound, heat, light, and electricity.

For charges for chemicals and breakage, see under EXPENSES.



## DEPARTMENT OF ENGLISH.

W. H. MAGRUDER, PROFESSOR.

The primary object of this Department is to give the student a practical knowledge of English, and with it, the liberal culture that necessarily follows a thorough study of language.

To this end it proposes—

1. To give (a) a critical knowledge of our vernacular in its grammatical and idiomatic constructions ; to give (b) a general knowledge of its etymological history, and the history of its relations to other languages ; and to give (c) such a knowledge of the history of its literature as can be acquired in the short time allowed for its study.

2. To present an outline of the history of general literature; and to teach the elements of criticism, and their practical application.

3. To give an accurate knowledge of English history, and a general knowledge of the history of the world.

To accomplish the purpose stated above, the following course of study has been adopted :

### FRESHMAN CLASS.

In the Freshman year the English sentence is carefully studied, for two terms, in its simple, complex, and compound forms ; in its punctuation, its analysis, its style, and its relation to the other sentences of the paragraph.

During the last term the history of the English people is studied topically. By means of maps and lectures, by discussions and debates, and by the use of a variety of text-books, interest in this important study is sought to be awakened and maintained.

During the same term the class pursues the study of English etymology in conjunction with the history of our tongue.

Lectures on elocution are given during the first term, and letter-writing, reproduction of lectures, composition, and declamation are exercises which are required weekly throughout the entire session.

Ancient biography constitutes the collateral reading of this class, special prominence being given to the biographies of scientific men, and of men who have influenced the industries of the world.

### SOPHOMORE CLASS.

During the second collegiate year the Sophomore class pursue the study of Rhetoric for two terms (first and second), discussing the subject of (1) style (a) under the various subdivisions of concord, clearness, unity, energy, and harmony in the construction of the sentence; and (b) the

origin and use of figures; (2) they review punctuation and capitals; (3) they study the different kinds of composition; and (4) they acquire the principles of real, logical, verbal, and æsthetic criticism in literature:—the whole being practically applied during the third term in the preparation of addresses on industrial topics.

Modern biography constitutes the collateral reading of this class under the same limitations as in the Freshman year.

#### JUNIOR CLASS.

In the first term of the third collegiate year, the Juniors prepare addresses on such industrial or scientific subjects as they may choose. These addresses are delivered during the second term before the faculty and students of the College. During the first term the class review the etymological history of the English language, and study the history of its literature, giving to the student simultaneously a knowledge of the changes through which our language has passed, and of the authors who illustrate these different periods. During the third term general history is pursued.

The collateral reading of this class is confined to English and American classics.

#### SENIOR CLASS.

During the second term of the fourth year the members of this class study the history of universal literature, the object being to give only a bird's-eye view of this vast field.

Five hours of each week during the last month of the second term is devoted to literary criticism. The instruction is given by lectures, and by the practical application of the principles of criticism to the writings of some one of our great authors.

The collateral reading of this class is elective.

Instruction in political economy and in constitutional law is, for the present, given to the Senior class by the professor in charge of the department of English.

#### POST-GRADUATE CLASS.

During the first term of each year, the study of Logic or Psychology is pursued, the one alternating with the other. The remaining terms are devoted to the reading of English classics, which are reported upon monthly by means of written essays.

### POLITICAL ECONOMY, MORAL PHILOSOPHY, AND CONSTITUTION OF THE UNITED STATES.

#### SENIOR CLASS.

POLITICAL ECONOMY: This subject embraces all the relations of capital

and labor by which citizens are directed in their industrial pursuits. It includes individual enterprise and public prosperity.

TEXT-BOOK: Gregory.

MORAL PHILOSOPHY: Books of reference—Wayland, Haven, Alexander.

CONSTITUTION OF THE UNITED STATES: Books of reference—Story, Andrews, and Macy.

The above will constitute the year's course in this Department.



## DEPARTMENT OF MILITARY SCIENCE AND TACTICS.

LT. HENRY C. DAVIS, 3rd Artillery U. S. A., Professor.

### THEORETICAL INSTRUCTION.

SENIOR CLASS:—Art and Science of War. (Lectures).

JUNIOR CLASS:—Tactics. (Upton's Infantry.)

### PRACTICAL INSTRUCTION.

SENIOR AND JUNIOR CLASSES:—Target practice and service of the Field Piece.

ALL CLASSES:—Company and battalion drills, dress parades, guard duty, etc.

### ARMS AND AMUNITION.

Two 3 inch field pieces and equipments.

250 rifles and infantry accoutrements.

Ball and blank cartridges for small arms, and blank cartridges for field pieces.

With the exception of 100 rifles received from the State, the U. S. Government furnishes all arms and ammunition.

The military discipline, which permeates every department, is firm but not severe. It is a most effective means of obtaining good order and attention to academic as well as military duties.





## DEPARTMENT OF MATHEMATICS.

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LT. HENRY C. DAVIS, 3rd Artillery U. S. A., Acting Professor.

This department embraces Pure Mathematics, Surveying, Mechanics, Astronomy and a limited course in Civil Engineering.

Pure Mathematics includes in our course, Algebra, Geometry, Plane and Spherical Trigonometry, and a brief course in Analytical Geometry.

Special attention is paid to surveying and leveling. The College is well provided with all necessary instruments for the purpose and much time is devoted to practical work in the field.

The Mathematical Department is furnished with a compass, transit, theodolite, plane table and level, all of modern manufacture and with the latest improvements.

See specimen examination for admission into Freshman Class under Course of Study.



## PREPARATORY DEPARTMENT.

DABNEY LIPSCOMB, PROFESSOR IN CHARGE.

The Preparatory Department is designed to furnish such instruction in the elementary branches as will thoroughly prepare the students in it for the lowest College class.

**COURSE OF STUDY**—This course, which formerly required two years for its completion, is now limited to one year, and the number of students admitted into the department will be determined by the number that can be accommodated in the dormitory in excess of those in the regular College classes.

The course of study embraces the following subjects : English Grammar, Composition, Arithmetic, Algebra to Equations of the First Degree, Geography, United States History, Agriculture, Penmanship, and Declamation.

**Text-Books used :** Reed and Kellogg's Graded Lessons in English, Kerl's English Grammar, (Common School Ed.), Thompson's Complete Arithmetic, Wentworth's Complete Algebra, Maury's Manual of Geography, Barnes' Brief United States History.

Instruction on all these subjects is made as practical and thorough as the nature of the subjects will permit. Especial attention is paid to Composition writing by the students, in order that they may thereby acquire a correct and ready use of the English language. The agricultural and industrial features of Geography are prominently set forth. That is, the student is taught not only where a State or country is, its size, capital, etc., but also what is of equal, if not greater importance, its natural features, soil, climate, productions, the industries of its people, and their progress in civilization. Particular stress is laid upon the business portions of Arithmetic, preparatory to the study of Book-Keeping in the Freshman class.

Agriculture is taught by a graduate of the College, assistant in this department, and supplementary lectures upon it are delivered before the classes by the Professors of Agriculture and Chemistry.

The department is well supplied with all necessary furniture, and apparatus for illustration is also provided.

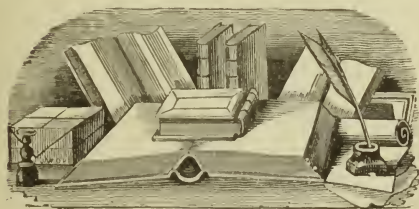
### CONDITIONS OF ADMISSION.

All applicants for admission into this department must be able to read ordinary prose readily and intelligently, spell words of common use, and

write and explain the construction of simple English sentences. They must also be thoroughly acquainted with the principles and operations of Arithmetic through Common and Decimal Fractions.

These conditions, it should be remembered, apply to those only who enter at the opening of the session. Those who come in later in the session must be still better prepared ; in order that, with profit to themselves and without hindrance to the class, they may unite with it, and take up the various studies assigned to them at whatever points the class may have reached in these studies at the time of their arrival.

See Specimen Examination for admission into the Preparatory Department after Course of Study.



## BUILDINGS AND GROUNDS.

The College buildings are situated on both sides of the branch of the Mobile and Ohio Railroad, which extends from Artesia to Starkville, one and a half miles from the latter place. The grounds about the buildings are being rendered as attractive as possible by the laying out of drives, and the planting of grass and ornamental and shade trees.

The Academic building, 127 by 70 feet, has three stories and a basement. The upper story consists of six rooms used as class rooms by the Professors of Agriculture and Horticulture, the Instructors in the Preparatory Department, and the Instructor in Drawing. The second story consists also of six rooms; serving as class rooms for the Professors of English and Mathematics, except one reserved for the safekeeping of the Mathematical instruments. The first floor contains the College Hall, or assembly room, and the offices of the President and Secretary. In the basement the Horticultural Department has its Grafting Room and tool rooms.

The Dormitory, 275 by 140 feet, is a three-story building capable of accommodating from two hundred to two hundred and fifty students. The first floor contains the Library, Museum, lecture room of the Professor of Biology, Commandant's Quarters, and Writing room. On the second floor are students' rooms and the guard-room and armory. The third floor consists wholly of rooms occupied by students.

The Laboratory, 56 by 38 feet, is a two-story building, the upper story of which contains a large lecture room, a large analytical room for students, a private work-room for the Professor of Chemistry, and apparatus rooms. The lower story contains a Balance Room, store-rooms, and four analytical rooms used by the Professor in the discharge of his duties as State Chemist.

The Mess Hall, 82 by 62 feet, is a two-story frame building. On the ground floor is a large dining hall for three hundred students; and to the rear of this, the kitchen, bakery and store-rooms used by the Steward are situated. The second floor is divided into two large halls, handsomely furnished and occupied by the Dialectic and Philotechnic literary societies respectively.

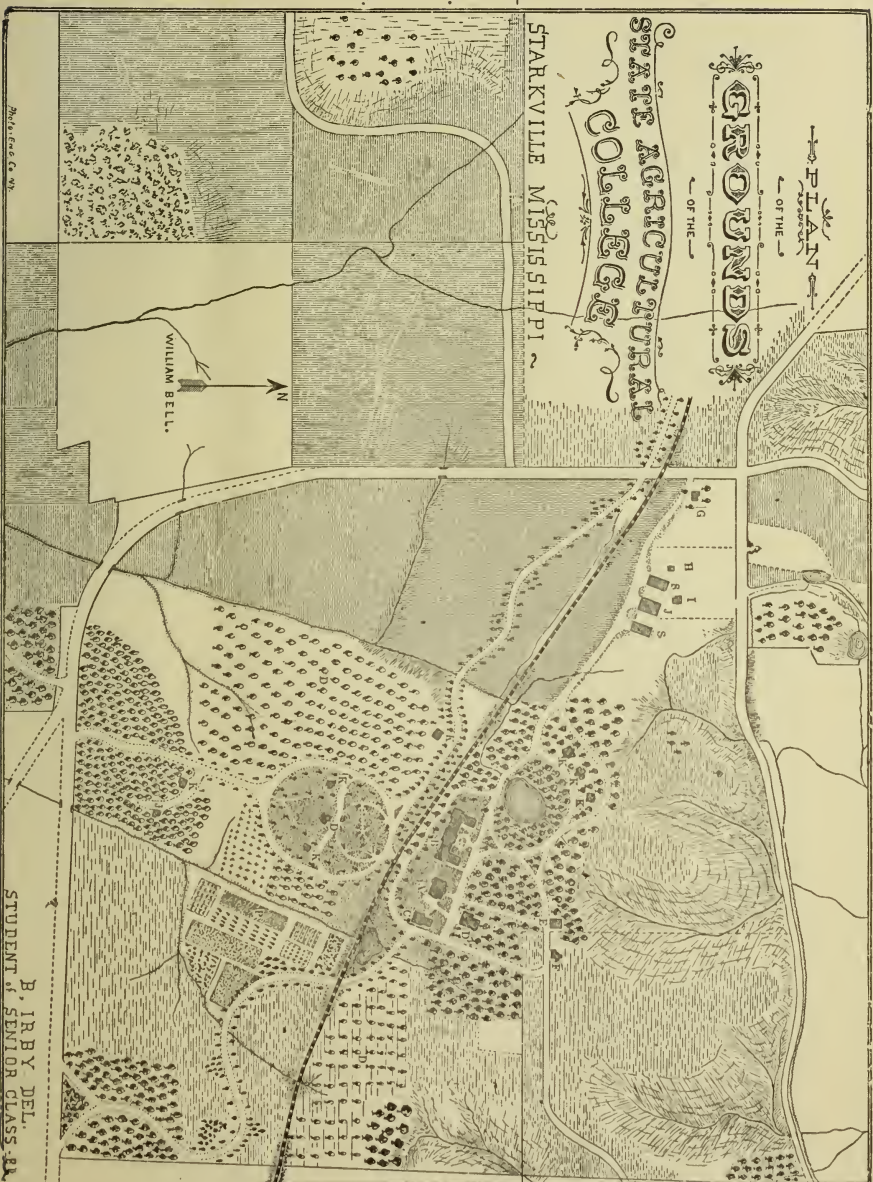
The Hospital is a one-story frame building, containing four large and four small rooms.

Besides these, there are residences for the President, Professors of Biology, Agriculture, Chemistry, English, Mathematics and Horticulture, Secretary, Surgeon, and Steward.



# EXPLANATION TO MAP.

- A—College Hall.
- B—Dormitory.
- C—Laboratory.
- D—Mess Hall.
- E—Hospital.
- F—Steward's Cottage.
- G—Farm House.
- H—Dairy.
- I—Engine House.
- J—Barn.
- K—Professor's Houses.
- L—President's Mansion.
- O—Orchards.
- P—Vegetable Garden.
- S—Stables for Cows.



MADE BY C. W. B.

B. IRBY DEL.  
STUDENT of SENIOR CLASS '84



## MISCELLANEOUS.

The students will be required to meet once a week for rhetorical exercises. One week, students from the more advanced classes will declaim or read essays, alternating the next week with some distinguished gentleman or a member of the Faculty, who will deliver an address on subjects having reference to their course of study or work.

### RELIGIOUS EXERCISES.

The daily duties are opened with prayers in the Chapel—Faculty and students being required to be present. On Sunday morning, students can attend any church in the town of Starkville.

Every Sunday evening religious exercises will be held in the College Chapel, at which all students must be present. These exercises are conducted, in turn, by the pastors of the different churches in the town of Starkville and vicinity.

### YOUNG MEN'S CHRISTIAN ASSOCIATION.

Besides the regular religious exercises in the College, a devotional service is held every Sunday night by the Young Men's Christian Association. This Association was organized in the fall of 1882, and has been in successful operation since that time. Its object is to promote the cause of Christianity among the students, by enlisting them in active Christian work.

All services are conducted by members of the Association. The officers for the present year are as follows:

|                              |                 |
|------------------------------|-----------------|
| PRESIDENT.....               | P. K. WHITNEY.  |
| VICE-PRESIDENT.....          | T. J. RAY.      |
| RECORDING SECRETARY.....     | J. J. GILL.     |
| CORRESPONDING SECRETARY..... | J. W. LIPSCOMB. |
| TREASURER.....               | W. E. WALKER.   |

### OFFICERS OF ALUMNI ASSOCIATION.

|                       |                        |
|-----------------------|------------------------|
| H. H. HARRINGTON..... | PRESIDENT.             |
| E. C. LUCAS.....      | FIRST VICE-PRESIDENT.  |
| J. M. WHITE.....      | SECOND VICE-PRESIDENT. |
| A. B. McKAY.....      | SECRETARY.             |

### EXECUTIVE COMMITTEE.

|                     |               |
|---------------------|---------------|
| W. L. McGEE,        | W. W. PORTER, |
| B. H. LEE.....      | ORATOR.       |
| G. T. HAMILTON..... | HISTORIAN.    |
| W. C. WELBORN.....  | POET.         |

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SOCIETIES.

Two Literary Societies, the PHILOTECNIC and DIALECTIC, furnish a valuable supplement to the academic work of the College. They are supported entirely by the students, who take great interest in them, about two-thirds of the students being usually on the rolls. Their meetings are held weekly on Friday evening, always open to visitors. Their exercises, which consist of debates, declamations, and occasional essays, are well fitted to give students the practical acquaintance with parliamentary usage and the tactics of debate, and the ease and readiness in public speaking, so useful in every walk of life.

Each Society has made the beginning of a library for the use of its members, which will be added to from time to time as their means admit.

The DIALECTIC REFLECTOR, published monthly by the DIALECTIC SOCIETY, is devoted to educational, literary and industrial topics. It will endeavor to give an accurate account of the workings of the College in its various departments. Though designed primarily to encourage composition writing on the part of Society members, space will be given for the publication of public lectures by members of the Faculty and others and the orations and essays of students. It is controlled and edited alone by students of the College. Price fifty cents per scholastic year, sample copy free. Address all communications to B. W. Saffold, Manager, Agricultural College, Miss.

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THE LIBRARY.

The Library, with the additions made during the present year, contains 2,342 volumes, and affords facilities for scientific research.

The Reading-room affords a comfortable place where students can assemble and read the periodicals, papers and books obtained from the Library.

The tables have the following State papers which are generously sent for the use of the Reading-room : Dialectic Reflector, Southern Reporter, Greenville Times, Signal-Copiahan. Jackson Clarion, Sea-Coast Beacon, Columbus Index, Pascagoula Democrat-Star, East Mississippi Times. True Democrat, Holly Springs South, Kemper County Herald, Tupelo Journal, Lexington Advertiser, Meridian Weekly News, Southern Live-Stock Journal, Winston Signal, Yazoo City Herald, State Ledger, Yazoo City Sentinel.

Leading papers from different cities of the Union are also on the tables, with magazines, reviews, etc.



## VACATIONS.

The summer vacation extends from the first Wednesday in July, to the first Wednesday in October, on which latter day all students should be present at the College. There is a short recess at Christmas, from about December 24 to January 1. Students are not permitted to be withdrawn before they are released by the College authorities, and are required to return promptly at the proper time.

## SCHOLARSHIP AND ATTENDANCE.

Students are carefully graded in their different studies. The maximum is 100 ; each student must average sixty or he is pronounced deficient.

As each study is completed, an examination is held in that study. The sum of the examination mark and the average of the daily marks in each study divided by two constitutes the final mark or grade. Should this fall below 60, the student is pronounced deficient. Students failing will be allowed a reasonable time for a new examination. Those failing in two studies at any time will not be permitted to go on with their class. As the instruction is given largely by lectures and work in laboratory and field, it is very important for students to remain or be present during the entire session.

## DEGREES.

The Degree of Bachelor of Science is conferred upon students who complete the College curriculum and pass all the required examinations.

Graduates of this Institution are earnestly recommended to take a post-graduate course of study in Agriculture, Horticulture, Chemistry or Botany. These courses of instruction are also open to the graduates of other colleges, who will be required to pay the usual matriculation fee ; and, in case Chemistry or Biology is selected, the student will be charged for the chemicals and materials used.

Students who take either of these courses of study will be exempt from military duties and compulsory labor, but will be subject to the regulations of the Faculty. The degree of M. S. will be conferred upon those students who pursue such a course of study for two years and pass the required examination.

## POST-GRADUATE COURSE.

The degree of Master of Science will be conferred on any student who has taken the Bachelor's Degree in this College, or in any other College with equivalent courses, and who pursues and completes the Post-Graduate course herein prescribed.

Every candidate for the Master's degree will be required to take the course in English, under the direction of the Professor of English, and any one of the scientific branches he may select. The amount of work to be performed will be equivalent to two year's work in the preparatory courses, and will be determined by the Faculty, and the degree conferred, only, after the candidate shall have passed an approved examination and have written a thesis on some subject connected with his study, other than the English, which shall be acceptable to the Faculty.

#### COURSE OF STUDY.

**BIOLOGY.**—Mycology, Fertilization and Cross Fertilization, relation of Insects and Plants, Histology, Zoology, including Embryology, with monthly written discussions, under direction of Professor of Biology.

**AGRICULTURE.**—Principles of stock-breeding and feeding, theory of Drainage, Cultivation, curing and marketing crops, improvement of soil and manure supply. The student will be required to take charge of field and feeding experiments, dairy and general farm work under direction of the Professor of Agriculture.

**HORTICULTURE.**—Pomology, Floriculture, Landscape Gardening, Forestry, Geographic Botany, Economic Botany, management of glass houses Entomology continued, which includes Embryology, Morthology, Anatomy and Physiology of insects, Silk Culture, Apiary, under the direction of Professor of Horticulture.

**CHEMISTRY.**—Chemistry applied in the analysis of soils, plants, foods, animal tissues and products, feeding, water and other drinks, under the direction of the Professor of Chemistry.

**ENGLISH.**—A course of reading in English prose and poetry, embracing entire works, Logic and Mental Science, with monthly written essays, under the direction of the Professor of English.

**MATHEMATICS.**—Analytical Geometry, Differential and Integral Calculus, Applied Mechanics and Civil Engineering.

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#### CONDITIONS OF ADMISSION.

Students must be not less than 15 years of age, and in good health. In case of two brothers, one over and the other under 15, both may be taken if the younger is near the age, and can be graded in any of the established sections in the College. Should students come from other colleges, they must present evidence of an honorable discharge. All students must bring credentials of good character.

Before admission, all applicants must submit to an examination. If applicants for the Freshman Class, they must be thorough in Arithmetic, Geography, Grammar, Reading, Spelling, Writing, and United States History.

Students will be admitted into the Freshman, or any more advanced

class at any time, provided they can stand an examination in all the previous studies of the course.

Students who cannot enter the College classes will be admitted into the Preparatory Department which provides a course of one year.

Applicants for admission into this Department must be able to read ordinary prose readily and intelligently, to spell words of common use, and to write and explain the construction of simple English sentences; they must also be thoroughly acquainted with the principles and operations of Arithmetic through Common and Decimal Fractions.

Students who desire to devote their time to study of special subjects bearing on agriculture or the mechanic arts, such as Chemistry, Botany, Physiology, Mechanics, etc., can take a select course, provided they pass an examination which would admit them into the Freshman Class. and, in addition, shall pass such examinations as the Professor in charge of the respective department selected shall prescribe.

Should students desire to take a select course because they may have failed in any examination in the regular course, they will be permitted to do so; but in no instance can they pursue any study in advance of their proper class, till they may have made up the deficient study.

The act apportioning students at the A. & M. College, among the several counties of the State according to the white educable children, approved March 8, 1882, is repealed, and the following substituted:

"Be it further enacted, That the President of said A. & M. College, in connection with its Board of Trustees, shall take such steps and establish such rules and regulations as shall seem to him best calculated to insure an equal distribution of the scholarships in said College among the several counties of the State, giving the preference, in all cases, to those calculated to follow agricultural, mechanical or other industrial pursuits."

The number of students in the Dormitory is limited to 225. It is earnestly desired that every county in the State be represented, and no student will be refused admission from a county which is not represented.

Students will apply direct to the President or Secretary of the College for information and admission.

The good will and co-operation of County Superintendents of Education is earnestly desired in aiding the College, and in directing boys who intend to farm, to be educated at this institution.

## EXPENSES.

All students are required, by a resolution of the Board of Trustees, to wear the prescribed uniform, within five miles of the College building. The suit, consisting of cap, coat, pants and vest, cost during the past year, \$18.35. The material is cadet gray.

A matriculation fee of five dollars entitles the student to the privileges of the entire course.

Tuition is free to all students from Mississippi for the regular curriculum, or any of the studies in it, where taken with any of the regular classes of the College.

The ancient languages are not taught unless desired. An instructor is provided. He is supported by the fees from the students, which is fixed at \$30 a year for all the languages.

Students in Sophomore year pay for chemicals used and apparatus broken. This will probably not exceed \$15.

The College furnishes a room free of rent in the Dormitory. Students must supply themselves with all necessary furniture, such as bedstead, bedding, table, wash-stand, etc., which, when two boys are together, costs about \$12.

Board is furnished at actual cost. The expenses at the end of each month are made up by the Steward, and divided among the students in the Dormitory. This expense includes keeping up the dining hall, sweeping and lighting the halls of the Dormitory, kerosene for lamps of students in their rooms, replacing broken crockery, etc., necessary to keep the boarding department in efficient working order.

The average expense per month, for the present year, has been \$7.70. Washing can be had at about 40 cents per dozen.

The surgeon's fee, which includes attention and medicine, is \$5.00 for each student, and must be paid at the beginning of each session, or when he enters.

The year is divided into three terms. Each student at the beginning of each term must deposit \$20 to meet his board bill for that term. He must at least have enough at the end of each month to pay his board for the ensuing month. All money deposited is allowed in settlement of accounts at the end of the term, or at any time. There must be a settlement at the end of each month; students who cannot pay must leave the College. No honorable discharge will be given any student till he pays all his dues.

To assist in meeting expenses, students are required to labor from two to three hours each day, for five days in the week. This is compulsory. With ordinary weather this will enable the student to earn about \$25 a year. Some students have earned as much as \$50.

Students can also labor on Saturday, and very frequently they can work longer than three hours daily during the week. Those who do this earn much more, and it goes far toward meeting their expenses.

For labor faithfully performed, they are paid six cents per hour.

Quite a number of students have, by their labor on the farm, brought their total expenses down to an average of one hundred dollars for the session. This includes board, fuel, washing, clothing and traveling expenses.

LABOR.—All students living in the Dormitory are required to labor three hours daily for five days in the week, (the weather permitting). This is arranged, as far as practicable, in illustration of studies and lectures. The



Junior Class will generally work in the gardens, orchards, and on the grounds; the Sophomore class in the farm; the Senior and Freshman Classes in farm or garden, or where their studies indicate.

Students residing outside the Dormitory are required, by action of the Board of Trustees, to work during the Sophomore and Junior year, just as those residing in the Dormitory, and are allowed as compensation four cents an hour.

Students are required to pay to the Secretary at the beginning of the first term:

|                        |         |
|------------------------|---------|
| Matriculation fee..... | \$ 5 00 |
| Medical fee.....       | 5 00    |
| For uniform .....      | 18 35   |
| Advance on board.....  | 20 00   |

In addition to which, they must have the means to furnish their rooms, and purchase books. At the beginning of the second and third terms, students must pay to the Secretary \$20 advance on board. The College authorities assume no responsibility in regard to the expenditure of money by students.



## THE MILITARY ORGANIZATION.

GENERAL S. D. LEE, PRESIDENT, The Head of the Military Department.

SECOND LIEUTENANT HENRY C. DAVIS, 3D U. S. ARTILERY,  
Commandant of Students.

### FIELD AND STAFF.

MAJOR.....VACANT.  
FIRST LIEUTENANT AND ADJUTANT.....PERRY FULLER.  
FIRST LIEUTENANT AND QUARTER MASTER.....J. W. WHITE.

### NON-COMMISSIONED STAFF.

SERGEANT MAJOR.....S D. HARRIS.  
ORDNANCE SERGEANT.....R. C. KING.

### COLOR GUARD.

COLOR SERGEANT.....E. A. GILBERT.

### COLOR CORPORALS.

|                |                |
|----------------|----------------|
| J. T. MANIRE,  | R. A. MILLER.  |
| R. W. SESSUMS, | J. B. KILGORE. |
| C. A. McCLAIN, | J. S. MENG,    |

G. L. DONALD.

### FIELD MUSIC.

|               |                  |
|---------------|------------------|
| BUGLERS.      | DRUMMERS.        |
| H. D. MINOR,  | G. G. CHRISTMAS, |
| T. J. LILLY,  | L. K. SHARPE.    |
| T. S. BOYD,   |                  |
| R. L. TURNER. |                  |

### COMPANY A.

CAPTAIN.....T. J. RAY.  
1ST LIEUTENANT.....E. S. WATSON.  
2ND LIEUTENANT.....J. E. TERBAL.  
1ST SERGEANT.....R. L. WOODWARD.

COMPANY B.

|                     |                |
|---------------------|----------------|
| CAPTAIN.....        | P. K. WHITNEY. |
| 1ST LIEUTENANT..... | H. L. NOEL.    |
| 2ND LIEUTENANT..... | J. H. BARKHAU. |
| 1ST SERGEANT.....   | H. P. HUGHES.  |

COMPANY C.

|                     |                   |
|---------------------|-------------------|
| CAPTAIN.....        | J. K. FITZGERALD. |
| 1ST LIEUTENANT..... | B. W. KILGORE.    |
| 2ND LIEUTENANT..... | C. L. GORGE.      |
| 1ST SERGEANT.....   | J. D. WILKINSON.  |

COMPANY D.

|                     |                |
|---------------------|----------------|
| CAPTAIN.....        | J. F. DUGGAR.  |
| 1ST LIEUTENANT..... | G. W. McCLAIN. |
| 2ND LIEUTENANT..... | E. E. RAND.    |
| 1ST SERGEANT.....   | J. L. BURKS.   |

COMPANY E.

|                     |                 |
|---------------------|-----------------|
| CAPTAIN.....        | D. P. McKAY.    |
| 1ST LIEUTENANT..... | C. E. SAUNDERS. |
| 2ND LIEUTENANT..... | A. C. MAGRUDER. |
| 1ST SERGEANT.....   | J. H. McKAY.    |

By College Regulations, all students are subject to military discipline, and are members of the corps of students.

Companies A, B, C, and D. are formed from students residing in the Dormitory, and Company E. from the day students.

The PRESIDENT, by College Regulations, is responsible for the government and management of the College, and supervises and controls all the departments, collegiate and otherwise, and by him are given all punishments of certain grades, and he makes out the scale of demerits.

The COMMANDANT has immediate command of the corps of students, and is responsible for the military organization. On his recommendation, are appointed by the President, the officers and non-commissioned officers of the corps. He inspects the Dormitory at least once per week and reports to the President its condition and the discipline of the students. As inspector of commons, he reports to the President all irregularities in the mess-hall, every infraction of mess-hall regulations, and the character of the food when complaints of the fare are made by the students. He has immediate charge of the drills and other military exercises, and through him are submitted all permits for privileges, all excuses and explanations for delinquencies. It is his duty to report to the President, for his action, all violations of the College regulations, and in every way assist the President and Faculty in their efforts to enforce discipline, and he sees that the punishments given by them are served.

The students march to and from their meals in the mess-hall, where good order and proper conduct are insisted on. The different classes and sections march to and from the class-rooms under command of one of their number, called the "section-marcher."

Guard duty is taught by guard-mounting every morning, and sentinels are posted in the halls whenever the battalion is absent from the Dormitory.

This duty is made as light as possible, and not allowed to interfere with the studies of the students, who go on guard about every ten days.

The students rise early and retire at 10 p. m., take their meals regularly and study and work at regular hours, as will be seen by the daily routine.

The Military Organization is not made the special feature of the College, and always yields to the interests of the more important—the Agricultural and Mechanical Departments of the Institution.

## DISCIPLINE.

To enforce discipline and preserve orderly conduct, reports are made by the student officers and non-commissioned officers, and demerits given by the President for those reports not removed on explanation submitted to the Commandant. Students have the right of appeal in writing through the Commandant, to the President, when they think that injustice has been done them.

The scale of demerits is from 1 to 5, according to the degree of the offense.

The grades of punishment are :

I. Reprimand, demerits, privation of recreation, and walking post as sentinel.

II. Arrest, confinement to room, tent, or limits, and reduction to ranks of officers and non-commissioned officers.

III. Suspension, dismissal with privilege of resigning, and public dismissal.

IV. Expulsion.

Only the President and faculty can award punishments. Those of 1st and 2d grades are given by the President, and those of 3d and 4th grades by the Faculty.

In order to maintain discipline, do justice to all, clearly discriminate between the faithful and unfaithful, and render a correct report of conduct, class-standing, etc., at the end of each month, the attention of patrons of the College is respectfully directed to the following regulations governing absences, and their co-operation is earnestly requested :

I. After regularly matriculating, no student, except on recommendation of the Surgeon, will be allowed to go home or elsewhere, except at such time as the Faculty may designate, unless the parent or guardian explicitly direct the President to grant the privilege.



II. All applications for leave to go home or elsewhere, must be for a specific time.

III. Any student who is on leave of absence and cannot return at the expiration of the time granted, must notify the President, give reasons therefor, and ask for extension of leave—designating the date on which he hopes to return ; otherwise his name may be dropped from the rolls and some one else taken to fill the vacancy.

IV. Students who are absent on account of sickness are requested to report before the end of each month their state of health and probability of returning that session.

V. Any student absent four consecutive weeks shall not be allowed to continue with his section upon return, except by special permission of the Faculty. Patrons are earnestly requested not to permit their sons to remain away from the College, at any time during the session, one moment longer than is absolutely necessary ; as it is a very great detriment to the student himself, in a measure detrimental to his class, and very discouraging to the instructor to have students lose the benefits of even one lecture, or the explanations of a single recitation.

The discipline has for its chief aim and object to secure, with as little severity as possible, prompt and cheerful obedience to, and respectful, quiet demeanor towards the College authorities, orderly conduct in the section rooms, dormitory, mess-hall, chapel, and in the fields. The military feature is the most effective means of enforcing and securing discipline. The company and battalion organizations give to the officers and non-commissioned officers acquaintance with the proper exercise of authority, and the students acquire habits of obedience.

This feature and the discipline are made to conduce to the furtherance of the principal aim and object of the College—its industrial feature.



## FARMERS' INSTITUTES.

The following is the resolution of the Board of Trustees:

*Resolved*, That the faculty be required and instructed to hold six Farmers' Institutes in the State each year.

The object of the Board is to bring the farmers of the State and the Agricultural College into closer relations to each other for mutual benefit. That the College may receive the advantage of the extensive and broad experience of progressive farmers, and at the same time try to benefit the Agricultural interests of the State. Without this mutual contact and sympathy, the farmer is deprived of much good which he should secure and demand of the College. If the College is not doing such work as should command the confidence of our most intelligent farmers in the State, the fact should be known and the remedy applied. If, on the contrary, the work is such as they approve, the farmers should know it, so that they may be benefitted by it. The Board asks the farmers to meet the Faculty of the College half way, to accomplish these results.

It is hoped these Institutes will encourage the formation of Agricultural Societies, and generally work up an interest in improved farming, that they may show that education is as necessary for a successful farmer, as for a successful man in any other pursuit of life.

To carry out the resolution, the following plan will be adopted :

1st. The Faculty of the College (two or more of its number) will, upon invitation, meet with any organized Grange, or Agricultural, Horticultural or Stock-breeders' Association, and assist in holding an Institute.

2d. At each Institute, the members of the Faculty will present papers or addresses on agriculture or education.

The Faculty will be pleased to receive invitations from organizations to meet with them. They will in due time make it public when they will attend.

The Institutes will be held during the month of July.



## COMMENCEMENT EXERCISES FOR 1887.

COMMENCEMENT SERMON, SUNDAY, JULY 3RD.

MONDAY, JULY 4TH.

|                                  |       |       |
|----------------------------------|-------|-------|
| SOPHOMORE ADDRESSES.....         | 11    | A. M. |
| FIRING OF NATIONAL SALUTE.....   | 12:30 | P. M. |
| DRESS PARADE OR SHAM BATTLE..... | 4     | P. M. |
| JUNIOR ADDRESSES.....            | 8:30  | P. M. |

TUESDAY, JULY 5TH.

*Senior Day.*

|                       |      |       |
|-----------------------|------|-------|
| SENIOR ADDRESSES..... | 11   | A. M. |
| CLASS EXERCISES.....  | 8:30 | P. M. |

WEDNESDAY, JULY 6TH.

AGRICULTURAL AND HORTICULTURAL DAY--Exhibit of Products upon  
the grounds. Cattle Display.

|                                                                                               |    |       |
|-----------------------------------------------------------------------------------------------|----|-------|
| ANNUAL ADDRESS.....                                                                           | 11 | A. M. |
| Delivery of Diplomas to the Graduating Class, with Baccalaureate<br>Address by the President. |    |       |

## CALENDAR FOR 1887-1888.

The scholastic year begins the first Wednesday in October and ends the first Wednesday in July.

The session is divided into three terms. The first begins the first Wednesday in October, and closes the 31st of December. The second term begins January 1, 1887, and closes April 1st. The third term begins April 1st, and closes the first Wednesday in July.

The session of 1887-'88 begins the first Wednesday of October next, and closes the first Wednesday of July, 1888.

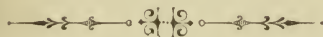








EIGHTH  
Annual Catalogue  
—OF THE—  
Agricultural & Mechanical  
COLLEGE,  
—OF—  
MISSISSIPPI.



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1887-'88.  
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JACKSON, MISS.:  
CLARION-LEDGER PRINTING ESTABLISHMENT.

1888.

# TRUSTEES.

HIS EXCELLENCY ROBERT LOWRY.....EX-OFFICIO PRESIDENT.  
T. F. WATSON.....SECRETARY.

## Executive Committee.

HON. H. M. STREET.....Meridian.  
DR. H. A. MINOR.....Macon.  
COL. W. B. MONTGOMERY.....Starkville.

## Trustees whose Terms Expire in 1890.

DR. H. A. MINOR.....Macon.  
HON. H. M. STREET.....Meridian.  
HON. J. Z. GEORGE.....Jackson.

## Trustees whose Terms Expire in 1892.

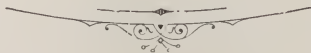
HON. L. B. BROWN.....Enterprise.  
DR. GEO. H. PEETS.....Woodville.  
HON. J. R. CAMERON.....Canton.

## Trustees whose Terms Expire in 1894.

COL. W. B. MONTGOMERY.....Starkville.  
HON. J. M. STONE.....Iuka.  
MAJ. T. C. DOCKERY.....Hernando.

## Treasurer.

HON. W. L. HEMINGWAY.....Jackson.





# FAKULTY OF INSTRUCTION.

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## AND OTHER OFFICERS.

---

GEN. S. D. LEE,  
President.

D. L. PHARES, A. M., M. D.,  
Professor of Biology, Geology and Moral Science.

\*F. A. GULLEY, M. S.,  
Professor of Agriculture.

JOHN. A. MYERS, A. M.,  
Professor of Chemistry,  
EX-OFFICIO STATE CHEMIST.

W. H. MAGRUDER, A. M.,  
Professor of English, and Librarian.

DABNEY LIPSCOMB, A. M.,  
Professor in Charge of Preparatory Department.

LIEUT. HENRY C. DAVIS, 3D ARTILLERY, U. S. A.,  
Professor of Military Science and Tactics.  
Commandant of Students,  
Acting Professor of Mathematics.

A. B. MCKAY, B. S.,  
Professor of Horticulture and Entomology.

B. IRBY, M. S.,  
Acting Professor of Agriculture.

†H. H. HARRINGTON, M. S.,  
Assistant Professor of Chemistry.

B. M. WALKER, M. S.,  
Assistant Professor of Mathematics.

J. M. WHITE, M. S.,  
Assistant Professor of English.

T. F. WATSON,  
TREASURER AND PURCHASING AGENT.

E. L. DIMITRY,  
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Instructor in Mathematics and Book-keeping.

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Instructor in Preparatory Department.

MISS. M. E. PHARES,  
Assistant in Biology.

B. W. KILGORE,  
Assistant in Chemistry.

J. H. WELLBORN,  
Instructor in Writing.

W. H. BARR, M. D.,  
Surgeon.

S. H. HOWARD,  
Steward and Janitor.

J. N. MCKELL,  
Foreman of Farm.

\* Resigned February 21, 1888.

† Resigned January 1, 1888.



## POST GRADUATE CLASS.

---

|                         |               |
|-------------------------|---------------|
| W. L. McGEE, B. S.....  | Agriculture.  |
| A. B. McKAY, B. S.....  | Horticulture. |
| J. F. DUGGAR, B. S..... | Agriculture.  |

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## UNDER-GRADUATES.

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### SENIOR CLASS.

| NAME.                 | COUNTY.    | NAME.                 | COUNTY.   |
|-----------------------|------------|-----------------------|-----------|
| ABBOT, E.....         | Oktibbeha. | MEBANE, R. E.....     | Marshall. |
| BARDWELL, C. C.....   | Oktibbeha. | McCLAIN, G. W.....    | Marshall. |
| CONNELL, J. H.....    | Lowndes.   | McKAY, Miss M. C..... | Madison.  |
| DuQUERCRON, Miss M... | Oktibbeha. | McKAY, J. F.....      | Madison.  |
| GEORGE, C. L.....     | Clarke.    | McKAY, J. H.....      | Madison.  |
| GLADNEY, E. L.....    | Chickasaw. | RAND, E. E.....       | Marshall. |
| HUGHES, H. P.....     | Claiborne. | SAFFOLD, B. W.....    | Harrison. |
| KILGORE, B. W.....    | Lafayette. | TERRAL, J. E.....     | Clarke.   |
| KING, R. C.....       | Kemper.    | WHITE, R. L.....      | Copiah.   |
| LIPSCOMB, J. W.....   | Lowndes.   | WOODWARD, R. L.....   | Choctaw.  |
| MAGRUDER, A. C.....   | Oktibbeha. | WILKINSON, J. D.....  | Smith.    |

### JUNIOR CLASS.

| NAME.               | COUNTY.     | NAME.                 | COUNTY.     |
|---------------------|-------------|-----------------------|-------------|
| ANDERSON, C. N..... | Lauderdale. | MANIRE, J. T.....     | Oktibbeha.  |
| BROWN, M. ....      | Monroe.     | McCLAIN, C. A.....    | Marshall.   |
| CHANDLER, J. W..... | Noxubee.    | McKINNEY, J. H....    | Marshall.   |
| FOX, J. W.....      | Calhoun.    | McWILLIAMS, J. W..... | Kemper.     |
| GILBERT, E. A.....  | Kemper.     | MIDDLETON, C. S.....  | Hinds.      |
| GILL, J. J.....     | Noxubee.    | STINSON, E. B.....    | Lauderdale. |
| HENRY, R. O.....    | Oktibbeha.  | STONE, B. W.....      | Carroll.    |
| JOINER, B. H.....   | Oktibbeha.  | WINSON, W. B.....     | Oktibbeha.  |
| LOCKARD, W. L.....  | Lauderdale. |                       |             |

### SOPHOMORE CLASS.

| NAME.               | COUNTY.  | NAME.              | COUNTY.    |
|---------------------|----------|--------------------|------------|
| AMES, C. B.....     | Noxubee. | KILGORE, J. B..... | Lafayette. |
| BOBO, B. F.....     | Coahoma. | MEADE, R. E.....   | Holmes.    |
| BRIDGES, C.....     | Webster. | MENG, J. S.....    | Adams.     |
| BROTHERS, O. C..... | Clay.    | MILLER, R. A.....  | Tate.      |

| NAME.               | COUNTY.    | NAME.                 | COUNTY.       |
|---------------------|------------|-----------------------|---------------|
| CAIN, J. E.....     | Carroll.   | NICHOLSON, T. B.....  | Noxubee.      |
| DARRINGTON, J.....  | Wilkinson. | POWERS, F. H.....     | Oktibbeha.    |
| DELONEY, T. S.....  | Louisiana. | RAIFORD, F. T.....    | Panola.       |
| DELONEY, T. H.....  | Louisiana. | REID, J. S.....       | Copiah.       |
| DONALD, G. L.....   | Clarke.    | ROGERS, B. A.....     | Lee.          |
| FORT, R. W.....     | Lowndes.   | ROWAN, C.....         | Lee.          |
| GARNER, C. B.....   | Lowndes.   | SHARPE, L. K.....     | Adams.        |
| HARRIS, S. P.....   | Lee.       | SHEEHY, R. E.....     | Holmes.       |
| HUDSON, L. B.....   | Benton.    | STURDIVANT, M. P..... | Tallahatchie. |
| JENNINGS, W. J..... | Grenada.   | WEEKS, A. B.....      | Copiah.       |
| JOHNSON, F. P.....  | Holmes.    | WILLIAMS, J. F.....   | Pontotoc.     |

## FRESHMAN CLASS.

| NAME.                | COUNTY.    | NAME.                 | COUNTY.       |
|----------------------|------------|-----------------------|---------------|
| ARMSTRONG, W. I..... | Lowndes.   | IRBY, D. G.....       | Panola.       |
| BLACK, W. W.....     | DeSoto.    | JOHNSON, W. J.....    | Holmes.       |
| BAGWELL, W. F.....   | Choctaw.   | MARSHALL, B. J.....   | Carroll.      |
| BARKSDALE, J. D..... | Rankin.    | MAGRUDER, J. C.....   | Oktibbeha.    |
| BALDRIDGE, P.....    | Itawamba.  | MCGEEHEE, A. F.....   | Panola.       |
| BARRY, J. K.....     | Lafayette. | McMULLIN, W. A.....   | Tallahatchie. |
| BORROUM, T.....      | Alcorn.    | McMULLIN, J. P.....   | Tallahatchie. |
| BOYD, J. A.....      | Oktibbeha. | MONTGOMERY, E.....    | Adams.        |
| BOWLING, F. L.....   | Madison.   | MOON, H. N.....       | Panola.       |
| BROWN, J. S.....     | Madison.   | NEWMAN, J. W.....     | Warren.       |
| BUSH, C. R.....      | Noxubee.   | NEWMAN, A. B.....     | Yazoo.        |
| COVINGTON, G. W..... | Copiah.    | OVERSTREET, H. C..... | Kemper.       |
| COX, A. C.....       | Clay.      | PICKETT, J. D.....    | Lauderdale.   |
| CRIGLER, W. L.....   | Lowndes.   | PRICE, J. W.....      | Prentiss.     |
| CROMWELL, E. B.....  | Clay.      | PICKENS, W. I.....    | Holmes.       |
| DAVIS, W. P.....     | Clarke.    | RICHEY, H.....        | Oktibbeha.    |
| DAVIS, R.....        | Monroe.    | SMITH, C. C.....      | Lincoln.      |
| ELMORE, W. M.....    | Holmes.    | SMITH, A. E.....      | Wayne.        |
| EVANS, I. H.....     | Monroe.    | STRONG, C.....        | Monroe.       |
| EWING, J. A.....     | Yazoo.     | SYKES, E. L.....      | Monroe.       |
| FALCONER, B. L.....  | Clarke.    | SCOTT, J. B.....      | Webster.      |
| FORT, L. A.....      | Lowndes.   | SCALES, E. D.....     | Oktibbeha.    |
| FARR, B. C.....      | Holmes.    | STUBBS, C. J.....     | Rankin.       |
| GARNETT, R. C.....   | Holmes.    | TURMAN, R. S.....     | Chickasaw.    |
| GAY, C. E.....       | Oktibbeha. | WATSON, L. S.....     | Oktibbeha.    |
| GIBSON, R. G.....    | Lowndes.   | WEST, G. E.....       | Attala.       |
| HEARON, H. A.....    | Choctaw.   | WALLACE, J. S.....    | Alcorn.       |
| HOWARD, W. H.....    | Holmes.    | WORD, L. S.....       | Monroe.       |
| HEYMAN, S.....       | Attala.    | WILKINSON, D. F.....  | Smith.        |
| HIBBLER, W. J.....   | Oktibbeha. | WESTMORELAND, C.....  | Lowndes.      |
| HINDS, S. B.....     | Lee.       | WOODWARD, J. E.....   | Wayne.        |



## STUDENTS TAKING AN IRREGULAR COURSE IN COLLEGE CLASSES.

| NAME.                |        | COUNTY.        | NAME.                 |        | COUNTY.     |
|----------------------|--------|----------------|-----------------------|--------|-------------|
| AMES, C. T. . . .    | Soph.  | Oktibbeha.     | McCRUMMIN, D. T.      | Soph.  | Monroe.     |
| AMES, A. H. . . .    | Soph.  | Oktibbeha.     | MILLER, H. R. . . .   | Fresh. | Pontotoc.   |
| BOUSHE, G. W. . . .  | Soph.  | Grenada . .    | MONTGOMERY, S. . .    | Fresh. | Adams.      |
| BONNEY, C. W. . . .  | Soph.  | Yazoo. . . .   | McKELL, T. W. . . .   | Fresh. | Oktibbeha.  |
| BALDWIN, O. W. . .   | Fresh. | Madison . .    | NEWTON, W. Z. . . .   | Soph.  | Itawamba .  |
| BAKER, J. W. . . .   | Fresh. | DeSoto . . .   | NELSON, W. F. . . .   | Fresh. | Copiah.     |
| BARNES, W. W. . . .  | Fresh. | Noxubee. . .   | OWEN, T. S. . . . .   | Fresh. | Bolivar.    |
| BROYLES, L. M. . .   | Fresh. | Monroe . . .   | PARKER, W. G. . . .   | Soph.  | Jackson.    |
| DOBBS, C. . . . .    | Fresh. | Lowndes. . .   | PURNELL, M. R. . . .  | Fresh. | Issaquena . |
| DUQUERCRON, F. H.    | Fresh. | Oktibbeha.     | PERKINS, W. R. . . .  | Fresh. | Oktibbeha.  |
| ELKIN, T. F. . . . . | Soph.  | Monroe. . . .  | RUFFIN, J. S. . . . . | Fresh. | Panola.     |
| FLETCHER, J. M. . .  | Jun.   | Attala. . . .  | ROBERTSON, G. W.      | Fresh. | Copiah. "   |
| FURR, V. A. . . . .  | Soph.  | Pontotoc . .   | SESSUMS, D. J. . . .  | Soph.  | Oktibbeha.  |
| FOSTER, S. F. . . .  | Fresh. | Lauderd'le     | SMITH, W. . . . .     | Fresh. | Wilkinson.  |
| GOWEN, W. H. . . .   | Jun    | Holmes. . . .  | SMITH, J. H. . . . .  | Soph.  | Oktibbeha.  |
| HARDEE, W. N. . . .  | Soph.  | Clarke . . . . | SAXON, P. . . . .     | Fresh. | Lowndes.    |
| HARRIS, W. B. . . .  | Fresh. | Lowndes. . .   | THOMAS, G. M. . . .   | Fresh. | Warren.     |
| KING, J. D. . . . .  | Soph.  | Kemper . . .   | VAUGHAN, F. M. . .    | Soph.  | Lowndes.    |
| LEWIS, F. G. . . . . | Jun    | Lauderd'le     | WATSON, T. F., Jr.    | Fresh. | Oktibbeha.  |
| LYERLY, C. L. . . .  | Soph.  | Hinds . . . .  | WHITEHEAD, G. G.      | Soph.  | Carroll.    |
| LAKE, W. A. . . . .  | Soph.  | Grenada . . .  | WORD, T. B. . . . .   | Fresh. | Coahoma.    |
| MOORMAN, L. T. . .   | Soph.  | Madison . . .  | WILKINS, T. J. . . .  | Soph.  | Noxubee.    |

## PREPARATORY DEPARTMENT.

| NAME.                   | COUNTY.     | NAME.                     | COUNTY.     |
|-------------------------|-------------|---------------------------|-------------|
| ALDERMAN, J. E. . . . . | Neshoba.    | HULLUM, B. S. . . . .     | Warren.     |
| ALDERMAN, J. W. . . . . | Neshoba.    | HENRY, W. M. . . . .      | Oktibbeha.  |
| ANSLEY, M. E. . . . .   | Hancock.    | HOPSON, J. B. . . . .     | Coahoma.    |
| ARD, G. W. . . . .      | Copiah.     | HOUSTON, T. J. . . . .    | Lee.        |
| ANDERSON, J. B. . . . . | Yazoo.      | JOHNSON, H. M. . . . .    | Holmes.     |
| BAGWELL, W. H. . . . .  | Choctaw.    | KEY, E. A. . . . .        | Remper.     |
| BEATTIE, A. N. . . . .  | Oktibbeha.  | KIMBROUGH, G. H. . . .    | Kemper.     |
| BELL, H. T. . . . .     | Lowndes.    | KNOX, M. C. . . . .       | Panola.     |
| BELL, E. F. . . . .     | Oktibbeha.  | LEE, R. E. . . . .        | Neshoba.    |
| BLANTON, W. T. . . . .  | Choctaw.    | LANE, J. R. . . . .       | Hinds.      |
| BORROUM, A. . . . .     | Alcorn.     | MAJIT, W. N. . . . .      | Grenada.    |
| BURTON, W. H. . . . .   | Newton.     | MARTIN, W. K. . . . .     | Bolivar.    |
| BROWN, E. M. . . . .    | Jefferson.  | MARKS, I. N., JR. . . . . | Monroe.     |
| BROWN, R. H. . . . .    | Monroe.     | MCGEEHEE, E. . . . .      | Bolivar.    |
| BRANTLEY, W. A. . . . . | Attala.     | MCCLENDON, W. L. . . .    | Oktibbeha.  |
| BROWN, J. F. . . . .    | Lauderdale. | MILLER, C. D. . . . .     | Pike.       |
| BURGESS, H. . . . .     | Oktibbeha.  | MONTGOMERY, W. H. . .     | Washington. |
| BARBER, W. C. . . . .   | Jefferson.  | MOORE, A. J. . . . .      | Oktibbeha.  |
| CONERLY, C. H. . . . .  | Pike.       | MCDOWELL, R. A. . . . .   | Oktibbeha.  |

| NAME.                 | COUNTY.     | NAME.                | COUNTY.     |
|-----------------------|-------------|----------------------|-------------|
| CAMERON, T. M.....    | Warren.     | MEEK, R. B.....      | Lafayette.  |
| CARROLL, J. S.....    | Oktibbeha.  | MULLINS, G. A.....   | Copiah.     |
| COLEMAN, H. H.....    | Warren.     | MORROW, W. P.....    | Jackson.    |
| CUNNELL, E. P.....    | Oktibbeha.  | NUCKLES, W. A.....   | Noxubee.    |
| CUNNINGHAM, A.....    | Harrison.   | NASON, D. H.....     | Pontotoc.   |
| CUNNINGHAM, R.....    | Harrison.   | NEWMAN, R. S.....    | Warren.     |
| CRIGLER, T. W.....    | Lowndes.    | NICHOLSON, L. M..... | Madison.    |
| COLEMAN, D. G.....    | Lafayette.  | NEYES, G. S.....     | Noxubee.    |
| DENHAM, J. K.....     | Perry.      | ODENEAL, E. P.....   | Hinds.      |
| DUBARD, H. L.....     | Grenada.    | PEARSON, W. E.....   | Kemper.     |
| DUNCAN, J. H.....     | Lowndes.    | PIERCE, C. E.....    | Oktibbeha.  |
| DONALLY, B. A.....    | Louisiana.  | PLEASANTS, J. G..... | Leflore.    |
| DUNLAP, E. H.....     | Panola.     | PEETS, L. C.....     | Wilkinson.  |
| EDENS, T. L.....      | Monroe.     | PEYTON, P. W.....    | Hinds.      |
| ELLIS, R. L.....      | Oktibbeha.  | POPE, J. F.....      | Holmes.     |
| ELMORE, W. A.....     | DeSoto.     | PICKETT, G. C.....   | Jackson.    |
| ELY, J. A.....        | Carroll.    | PARKS, R. W.....     | Leflore.    |
| FANT, W. F.....       | Coahoma.    | PRINCE, W. B.....    | Carroll.    |
| FITZGERALD, F. P..... | Grenada.    | RUSH, H. C.....      | Kemper.     |
| FLETCHER, W. B.....   | Hinds.      | RICHEY, J. A.....    | Oktibbeha.  |
| FULCHER, R. L.....    | Choctaw.    | SALTER, T. E.....    | Winston.    |
| GARDNER, S. C.....    | Amite.      | SCOTT, J. W.....     | Adams.      |
| GARTIN, J. W.....     | Lowndes.    | SMITH, G. G.....     | Washington. |
| GILL, E. W.....       | Bolivar.    | SPARKMAN, J. E.....  | Noxubee.    |
| GORDON, W. P.....     | Claiborne.  | STENNIS, W. E.....   | Lauderdale. |
| GILLESPIE, T. L.....  | Oktibbeha.  | STENNIS, R. L.....   | Lauderdale. |
| HARRIS, W. H.....     | Warren.     | STONE, W. D.....     | Itawamba.   |
| HAIRSTON, E. E.....   | Lowndes.    | SUDDETH, C. C.....   | Oktibbeha.  |
| HALL, I. R.....       | Panola.     | SYKES, W. A.....     | Monroe.     |
| HINTON, W. D. S.....  | Madison.    | THOMAS, D. H.....    | Prentiss.   |
| HEGGIE, I. R.....     | Carroll.    | VEAZY, E. T.....     | Tate.       |
| HERTZ, E.....         | Holmes.     | WYNN, W. T.....      | Yalobusha.  |
| HODGES, W. W.....     | Montgomery. | WORD, S. W.....      | Chickasaw.  |
| HOYE, A. L.....       | Newton.     | WOOD, J. H.....      | Kemper.     |
| HOLMES, W. C.....     | Montgomery. | WILLIAMS, P. T.....  | Oktibbeha.  |

### RECAPITULATION.

|                                                           |     |
|-----------------------------------------------------------|-----|
| Post Graduates.....                                       | 3   |
| Seniors.....                                              | 22  |
| Juniors.....                                              | 17  |
| Sophomores.....                                           | 30  |
| Freshmen.....                                             | 62  |
| Number taking an irregular course in College Classes..... | 44  |
| Preparatory Department.....                               | 108 |
| Total.....                                                | 286 |

## COURSE OF STUDY.

1888-9.

### COLLEGIATE DEPARTMENT.

#### FRESHMAN CLASS.

FIRST TERM—Algebra, English, Natural Philosophy, Drawing.

SECOND TERM—Algebra, Agriculture, English, Horticulture.

THIRD TERM—Algebra, (6 weeks), Geometry, (6 weeks), English History, English Etymology, Book-keeping.

Declamation and Composition through entire session.

#### SOPHOMORE CLASS.

FIRST TERM—Geometry, Elementary Chemistry, Mechanical Drawing, Rhetoric, Composition, Work.

SECOND TERM—Geometry (6 weeks), Trigonometry (6 weeks), Blowpipe Analysis, Rhetoric, Preparation of Addresses on Scientific and Industrial subjects.

THIRD TERM—Surveying, Agriculture, Chemical Analysis, Delivery of Addresses, contesting for places at Commencement.

#### JUNIOR CLASS.

FIRST TERM—Analytical Geometry and Mechanics, Tactics (6 weeks), Criticism (6 weeks), Free Hand Drawing, Anatomy and Physiology, Preparation of Addresses on scientific and industrial subjects.

SECOND TERM—Mechanics, Veterinary Science, Horticulture, History of English Literature, Delivery of Addresses.

THIRD TERM—Entomology, Botany, General History, Agricultural Chemistry, Delivery of Addresses, contesting for places at Commencement.

#### SENIOR CLASS.

FIRST TERM—Astronomy, Agriculture, Political Economy, Zoology, Preparation and Delivery of Addresses on scientific and industrial subjects.

SECOND TERM—Civil Engineering, Chemical Physics, Geology, Constitutional Law.

THIRD TERM—Agricultural Chemistry, Botany, General Literature, Moral Science (6 weeks), Military Science (6 weeks), Delivery of Addresses, contesting for places at Commencement.

#### PREPARATORY DEPARTMENT.

English Grammar, Composition, Arithmetic, Algebra to Equations of the First Degree, Geography, United States History, Agriculture, Penmanship and Declamation.

TEXT BOOKS—Reed and Kellogg's Graded Lessons in English, Kerl's English Grammar (Common School Ed.), Thomson's Complete Arithmetic, Maury's Manual of Geography, Barnes's Brief United States History, Peck's Manual of Algebra.

## OBJECTS AND HISTORY OF THE COLLEGE.

The College owes its origin to the Act of the General Government passed in 1862, to encourage the establishment of Industrial Colleges in the States, to benefit "agriculture and the mechanic arts." This Act, among other things, provided for the "endowment, support and maintenance in each State of at least one College, where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts in such manner as the legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes."

The status of the Agricultural Land Scrip Fund, donated by the United States Government, is as follows: The scrip represented 207,920 acres of public land, which was sold for about ninety cents per acre, realizing in currency \$188,928. This amount, by judicious management, has been increased to \$227,150, which is now in the State Treasury, represented by twenty-year bonds, running from 1876 to 1896, bearing five per cent. interest per annum.

The Legislature, by an Act, February 28, 1878, divided this fund equally between Alcorn University and this College, giving to each \$113,575. A subsequent Legislature authorized the sale of \$15,000 worth of the bonds to purchase lands—so that the amount now in the State treasury to the credit of this College is \$98,575, yielding an income annually to the College of \$4,928.75, which is all that is derived from this source.

The Legislature of Mississippi, in accepting this endowment or trust fund from the General Government, prescribed the following in the powers given to the Board of Trustees:

"The establishment and maintenance of a first-class institution, at which the youth of the State may acquire a common school education, and a scientific and practical knowledge of agriculture, horticulture, and the mechanic arts; also the proper growth and care of stock, without, however, excluding other scientific and classical studies, including military tactics.

"They shall regulate the course of study, rates of tuition, management of experimental farm, manner of performing labor, and the kind of labor to be performed by students."

These two Acts of the General and State Governments plainly define the objects of the College. The "leading object" must be, "to benefit agriculture and the mechanic arts." Should other studies be taught than those relating to these interests, they should be considered secondary, and rather



as instruments to more readily comprehend the sciences which underlie agriculture and the mechanic arts.

The complexion of the College must be such as to familiarize students with the leading objects as set forth in the acts—to educate and direct their minds and tastes to agriculture, horticulture, care and growth of stock, management of farms, manner of performing labor, and the mechanic arts. The College is not to be in the strictest sense either literary, classical or military, but rather a College to give the industrial classes a general education, combined with such scientific and practical knowledge as will make them familiar with the nature of the objects and forces with which they have to deal.

This necessitates that special stress should be laid on the sciences, such as Chemistry, Botany, Geology, Zoology, Entomology, Physiology, Mechanics, Mathematics, Physics, etc., which underlie agriculture. To understand properly these sciences a very liberal culture, especially in English, is requisite. The foundation of "liberal culture" must be proportionately as systematic and thorough as that required to comprehend what are (sometimes) called the learned professions. The varied conditions contributing to an intelligent understanding of agriculture as a science and an art comprehend an education as broad and liberal as that needed in mastering any profession. The education must necessarily, however, differ in kind. Students, whose education is intended to promote the interests designated in the acts, must omit some studies taught in other colleges looking to general or special training. The education, too, is to be practical and industrial; students must be familiar not only with farms and labor, but must also labor themselves, and in this labor find a part of their education, the object of which is to create a taste for agricultural pursuits and to fix and preserve habits of industry.

In conformity with the acts designated, the Board of Trustees located the Agricultural and Mechanical College of Mississippi one and a half miles from the town of Starkville, in Oktibbeha county, 422.4 feet above sea level.

The College is on a permanent basis, the Legislature having given ample appropriations for the necessary buildings and their equipment.

The Trustees have provided for a Preparatory and a Collegiate course, which will afford the youth of the State ample means of acquiring, in accordance with the law, a thorough elementary education, and scientific and practical knowledge of Agriculture and the Mechanic Arts.

The large number of students in attendance each year shows that the College supplies a necessity to the people of the State in giving a thoroughly practical education to its youth. It seems that a large class of people desire the young men of the State to combine labor with theoretical instruction; and this is a correct idea where boys are to be educated for farm life. This training should be in connection with a farm where industrious habits already obtained, may be preserved, or may be acquired by those not having them

already. Study for four years without the habit of manual labor creates a disinclination for work, and tends to separate brain work and manual labor, giving discredit to the latter.

The development of our agricultural interests necessitates that theory and practice go together in the education of the farmer. If this is true of other professions, why not with the farmer? The labor feature corresponds with the technical and expensive instruction that is given at West Point and Annapolis in the numerous drills, encampments, cruises, etc.; that is given in the hospitals and dissecting rooms of medical colleges,—in the moot courts of the law school,—in the field work of the engineer,—in the shops of the mechanic.

The instruction given in the way of education in the academic and scientific departments is of the highest importance, and nothing can take precedence over it. The industrial features come next, and with them is joined the assistance which a student, by his work, can obtain pecuniarily. It differs from the old manual labor school in this: there the important matter was to work enough to pay all expenses. The education received was of secondary consideration, compared with earning enough money to pay one's way. The boy who labors most of his time is too tired physically to accomplish much in his studies; whereas moderate labor facilitates study. It is desirable that this feature should be understood in connection with this College. It must not be thought that a boy can work his way through by his labor, and also get a first-class education. It is impossible to do both. He could not accomplish it if he had a school at home at his very door. A student here has many advantages; he not only gets his tuition free from the State, but he has an opportunity to work and pay for half or more of his board by his labor. At home he would still have to incur expense of board and clothing, which are unavoidable in attending school under any conditions.

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## DEPARTMENT OF BIOLOGY GEOLOGY AND MORAL SCIENCE.

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D. L. PHARES, PROFESSOR.

### JUNIOR CLASS.

FIRST TERM—ANATOMY AND PHYSIOLOGY are taught by lectures, illustrated by skeletons, mounted and unmounted; models, manikin, fine life-size drawings colored from nature; alcoholic preparations and dissections, showing the comparative structures of the organs of sense, digestion, circulation, respiration, locomotion, etc., their situation, their appearance in health and disease, their interdependence and their relations to hygiene.

SECOND TERM—This term is occupied by lectures on breeds, breeding, and management of sound and sick animals with examinations of them by the class.

THIRD TERM.—BOTANY, structural, physiological, descriptive and economic, is taught practically; the class making dissections under the microscope and analyzing from 70 to 100 fresh plants.

#### SENIOR CLASS.

FIRST TERM.—TO ZOOLOGY, in its various phases of development from the microbe to man, one hour is given daily.

In these studies students have the use of skeletons, plates, thousands of specimens, twelve high power compound microscopes of modern construction and recent improved accessories.

SECOND TERM.—GEOLOGY is taught in its relations to lithology, mineralogy, soils and its agricultural, architectural and other economic applications.

THIRD TERM.—The study of BOTANY is resumed with special reference to development, tissues, morphology and microscopic organisms in their relations to health and diseases. Moral science is also taught with book and lectures.

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### DEPARTMENT OF AGRICULTURE.

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\*F. A. GULLEY, PROFESSOR, AND SUPERINTENDENT OF FARM.

B. IRBY, ACTING PROFESSOR AND SUPERINTENDENT OF FARM.

Instruction in Agriculture is given by lectures, divided into three courses, occupying the entire College year.

SENIOR CLASS—First Term. Farm economy, principles of stock-feeding, nutritive ration, value of different foods and manures, preparation and application of manures and fertilizers, composting, green manuring, adaptation of soils to crops, special crops, rotation of crops, cultivation, planning and erecting farm buildings.

FRESHMAN CLASS—Second Term. History, characteristics, breeding, and care of the breeds of domestic animals; butter-making.

SOPHOMORE CLASS—Third Term. Principles of drainage, effect of an excess of soil-water on cultivation, surface and sub-soil drains, contamination of wells and cisterns, laying tiles and sewers, hill-side ditching, controlling streams preventing soils from washing, use and care of farm implements and machinery, with field practice.

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Instruction in the Department of Agriculture embraces not only the lectures of the class-room, but the knowledge gained by the student in the regular work of the field, and in an intimate association, during his whole course, with a large and well equipped farm.

The department is under the immediate supervision of the Professor of

Agriculture ; which fact affords opportunities to illustrate in actual practice the theories taught in the class-room.

The compulsory student-labor system is made a prominent feature, and is considered educational, not only in teaching the student how to do certain things, but also in making him familiar with the various industrial operations of the institution and interested in them.

The College owns 1802 acres of land, divided into cultivated fields, pastures, orchards, ornamental grounds, etc.

A considerable portion of the farm is cultivated with special reference to providing for the student labor that will be instructive. The larger part of the farm is devoted to the production of commercial products, and the general crops of a diversified system of husbandry, including stock-growing and dairying. In somewhat similar Colleges, ever. where student labor is required, it is deemed sufficient to furnish just enough labor to employ the student during a limited part of the course, having simply specimen farms, herds, etc. The College provides for the student not merely experiment work, but a business farm. Instead of specimen crops on a small scale, that the student can only see, he helps to cultivate crops that vary in extent from ten to one hundred and fifty or more acres.

To illustrate the varieties of breeds, a herd is provided, enabling the student to become familiar with the work of caring for several hundred animals, as well as to study the peculiarities of the various breeds.

Opportunity is given the student to compare the "theory" of Agriculture with the "practice;" he soon becomes an interested critic, and is enabled to judge with considerable accuracy, as to the value of the principle taught in relation to the art.

At the close of the course in Agriculture, questions pertaining to the details of the entire work of the farm constitute a part of the regular examinations.

\* Resigned.

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### DAIRY HUSBANDRY.

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A special course in Dairy Husbandry is provided, covering the theory of breeding dairy stock, feeding for milk, and of making and shipping milk, cream, butter and cheese, and the practical method of working in different sections of the country. Facilities are provided for practical work in the College Creamery for young men, regular students and others, who desire to fit themselves for taking charge of creameries in the State.

#### MEANS OF ILLUSTRATION—FARM DEPARTMENT.

Eighteen hundred and two acres of land, of which six hundred acres are under cultivation, including garden and grounds ; barns, stables, pigpens, and other buildings, built on approved plan with modern conveniences,



with capacity for 200 head of cattle and 9 mules; 200 head of pure-bred, grade and native cattle, including Holsteins, Jerseys, Herefords, Devons and Galloways; a full and complete outfit of farm machinery and implements, including steam-engine, cane mill, evaporator, thresher, feed mill, fanning mill, sheller, ensilage cutter, Kemp's manure spreader, Pennock's road and ditching machine, reapers, mowers, roller grain drills, corn and cotton planters, and a variety of plows, harrows and cultivators for one, two and three mule teams, from the principal manufacturers of the country; the growing of all crops adapted to this latitude, ensilaging green crops, working up sugar-cane and sorghum experiments in stock feeding and growing crops.

A working Creamery with full outfit of the best machinery, including the de Lavel cream separator. Butter is made and forwarded to market daily during the year.

The Library contains works of reference on all branches of agriculture and allied sciences, and the reading room is supplied with all the best agricultural papers and periodicals published in the country.

### DEPARTMENT OF HORTICULTURE.

A. B. MCKAY, PROFESSOR AND SUPERINTENDENT OF GARDEN, ORCHARDS, VINEYARD AND GROUNDS.

FRESHMAN CLASS—*Second Term*—Instruction in the class-room is given by lectures on the following topics: Location and preparation of garden and orchard lands; Drainage—Manures—Their preparation and application to different plants; Construction and management of hot-beds, cold-frames, flower-pits and propagating houses; When and how to plant seeds, trees, vines, etc.; The common insects injurious to garden and orchard products, and how to destroy them; Budding, grafting and other subjects incidental to the department.

JUNIOR CLASS—*Second Term*—The following are some of the subjects discussed: Garden, orchard and nursery economy; Varieties best adapted to different soils and latitudes; The pruning and training of trees and vines; The best methods of gathering, packing and shipping horticultural products to distant markets; Of preserving and keeping vegetables and fruits, and of saving seeds; Designs and management of ornamental grounds.

JUNIOR CLASS—*Third Term*—Economic etymology text-book, supplemented by lectures. While at work in the garden, orchard and vineyard the student becomes familiar with the growth and habits of the different plants, trees and vines cultivated. He learns by actual practice the art of propagating from seeds, layers, cuttings, budding and grafting. With his own hands he prunes the orchard and vineyard, plants, cultivates and harvests the different garden and orchard products; thus acquiring skill and such a knowledge of the business as can be obtained in no other way.

## MEANS OF ILLUSTRATION

Orchard, vineyard, garden and grounds ; strawberry and raspberry beds ; cold-frames and hot-beds. Books and periodicals in College Library.

## DEPARTMENT OF CHEMISTRY AND PHYSICS.

JOHN A. MYERS, PROFESSOR.

Instruction in this department is given by lectures, exercises from text-books, and by practical work in the laboratory. The aim of the department is to make the students thorough as far as they go in the respective branches of study embraced in the course. The time devoted to any one study, while not sufficient to make specialists in any of the branches studied, is ample to lay a good foundation for work which it is expected students will continue in a more advanced course of special study indicated in the post-graduate course.

We are prepared to give a student as fine facilities for the study of agricultural chemistry as can reasonably be asked of any laboratory.

The regular course of study is as follows :

FIRST TERM—FRESHMAN CLASS—*Natural Philosophy*—Text-book, Cooley's New Natural Philosophy, supplemented by lectures and experiments.

SOPHOMORE CLASS—*Elementary Chemistry*—Text-book, Cooley's Chemistry.

This is supplemented by lectures and very fully illustrated by experiment. Our facilities for this purpose are particularly excellent.

SENIOR CLASS—*Second Term—Agricultural Chemistry*—Text-book, Storer's Vol. II.

SOPHOMORE CLASS—*Second Term—Blow-Pipe Analysis and Determinative Mineralogy*. Two hours a day ; five days a week.

SENIOR CLASS—*Third Term—Chemical Physics*—Pynchon's Chemical Physics, illustrated by numerous experiments and extended by lectures upon the more recent advances in this department of science.

JUNIOR CLASS—*Third Term—Agricultural Chemistry*—Storer's Vol. I.

SOPHOMORE CLASS—*Third Term—Wet Analysis* and exercises in various chemical calculations, writing reactions, etc. ; 10 hours a week.

It is absolutely necessary that a student should have studied Elementary Chemistry before taking Agricultural Chemistry. Special stress is laid upon the course in Chemistry, and we aim to do as thorough work in this branch as possible. The student has the finest possible advantages and we expect excellent work.

## MEANS OF ILLUSTRATION.

The College is provided with a complete set of Meteorological instruments, with which daily observations are taken, and the daily weather

reports are received by telegraph, and there are now ordered a complete set of signal flags, soil thermometers and other instruments used for observations in connection with the experiment station, to which the students will have free access. In Chemistry the outfit of the College in apparatus, chemicals, etc., is quite extensive and is being constantly increased and improved. The laboratories of the State Chemist, and of the Experiment Station with their apparatus, collections, facilities for accurate and rapid work, are all at the command of the student to give him an inspiration to push forward and to keep before him constantly the latest and most reliable process of analysis, and make him familiar with the workings of such laboratories. All of the fertilizers sold in the State are analyzed here; the feed stuffs used in experimental feeding, the manures, the soils, the plants, the dairy products, the drainage waters, the well waters, many commercial products, and every variety of mineral within the State, find their way into the laboratory, to be examined and reported upon. In this way the student may become as familiar with these delicate and complicated processes of scientific work as with the ordinary affairs of life.

In Physics the supply of apparatus is good and sufficient to illustrate most of the simpler principles of the science.

The Library of the College, together with that of the Experiment Station, places the student in a position to become acquainted with every thing that is being done in the way of chemical investigation, and any topic connected with the progress of the science can be investigated promptly and fully.

For charges for chemicals and breakage, see under Expenses.

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## DEPARTMENT OF ENGLISH.

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W. H. MAGRUDER, PROFESSOR.

The primary object of this Department is to give the student a practical knowledge of English, and with it, the liberal culture that necessarily follows a thorough study of language.

To this end it proposes—

1. To give (a) a critical knowledge of our vernacular in its grammatical and idiomatic construction; to give (b) a general knowledge of its etymological history, and the history of its relations to other languages; and to give (c) such a knowledge of the history of its literature as can be acquired in the short time allowed for its study.
2. To present an outline of the history of general literature; and to teach the elements of criticism, and their practical application.
3. To give an accurate knowledge of English history, and a general knowledge of the history of the world.

To accomplish the purpose stated above, the following course of study has been adopted:

## FRESHMAN CLASS.

In the Freshman year the English sentence is carefully studied, for two terms, in its simple, complex and compound forms; in its punctuation, its analysis, its style, and its relation to the other sentences of the paragraph.

During the last term the history of the English people is studied topically. By means of maps and lectures, by discussions and debates, and by the use of a variety of text-books, interest in this important study is sought to be awakened and maintained.

During the same term the class pursues the study of English etymology in conjunction with the history of our tongue.

Lectures on elocution are given during the first term; and letter-writing, reproduction of lectures, composition, and declamation are exercises which are required weekly throughout the entire session.

Ancient biography constitutes the collateral reading of this class, special prominence being given to the biographies of scientific men, and of men who have influenced the industries of the world.

## SOPHOMORE CLASS.

During the second collegiate year the Sophomore class pursues the study of Rhetoric for two terms (first and second), discussing the subject of (1) style (*a*) under the various subdivisions of concord, clearness, unity, energy, and harmony in the construction of the sentence; and (*b*) the origin and use of figures; (2) they review punctuation and capitals; (3) they study the different kinds of composition; and (4) they acquire the principles of real, logical, verbal, and æsthetic criticism in literature;—the whole being practically applied during the third term in the preparation of addresses on industrial topics.

Modern biography constitutes the collateral reading of this class under the same limitations as in the Freshman year.

## JUNIOR CLASS.

In the first term of the third collegiate year, the Juniors prepare addresses on such industrial or scientific subjects, as they may choose. These addresses are delivered during the second term before the faculty and students of the College. During the first term the class review the etymological history of the English language, and study the history of its literature, thus giving to the student simultaneously a knowledge of the changes through which our language has passed, and of the authors who illustrate the different periods. During the third term, general history is pursued.

The collateral reading of this class is confined to English and American classics.

## SENIOR CLASS.

During the second term of the fourth year the members of this class study the history of universal literature, the object being to give only a bird's-eye view of this vast field.



Five hours of each week during the last term is devoted to literary criticism. The instruction is given by lectures, and by the practical application of the principles of criticism to the writings of someone of our great authors.

The collateral reading of this class is elective.

Instruction in political economy and in constitutional law is, for the present, given to the Senior and the Junior class respectively by the professor in charge of the department of English.

#### POST-GRADUATE CLASS.

During the first term of each year, the study of Logic or Psychology is pursued, the one alternating with the other. The remaining terms are devoted to the reading of English classics, which are reported upon monthly by means of written essays.

### DEPARTMENT OF MILITARY SCIENCE AND TACTICS.

LT. HENRY C. DAVIS, 3rd Artillery U. S. A., Professor.

#### THEORETICAL INSTRUCTION.

SENIOR CLASS:—Art and Science of War. (Lectures). (6 weeks).

JUNIOR CLASS:—Tactics. (Upton's Infantry). (6 weeks).

#### PRACTICAL INSTRUCTION.

SENIOR AND JUNIOR CLASSES:—Target practice and service of the Field Piece.

ALL CLASSES.—Company and battalion drills, dress parades, guard duty, etc.

#### ARMS AND AMMUNITION.

Two 3 inch field pieces and equipments.

250 rifles and infantry accoutrements.

Ball and blank cartridges for small arms, and blank cartridges for field pieces.

The military discipline, which permeates every department, is firm but not severe. It is a most effective means of obtaining good order and attention to academic and industrial as well as military duties.

### DEPARTMENT OF MATHEMATICS.

LT. HENRY C. DAVIS, 3d Artillery U. S. A., Acting Professor.

This department embraces Pure Mathematics, Surveying, Mechanics, Astronomy and a limited course in Civil Engineering.

Pure Mathematics includes in our course, Algebra, Geometry, Plane and Spherical Trigonometry, and a brief course in Analytical Geometry.

Special attention is paid to surveying. The field notes, obtained from actual field work by the students, are used in teaching how the office or indoor work is done.

The students themselves use the instruments, make the measurements, calculate the areas and plot the work.

Leveling is also made a specialty. The students run lines, lay out side hill ditches, and calculate amount of cuttings for ditches or filling for embankments.

The department is well supplied with instruments for this work, viz: A compass, transit, theodolite, plane table and level, all of modern manufacture and with the latest improvements. In addition to the regular classroom work, the Sophomore Class has this practical out-door instruction ten hours per week for the entire third term.

The object of the Department is to fit this class for the ordinary land surveying and leveling on a farm, and to follow this up in the senior year with an advanced course under Civil Engineering.

*The practical* is the aim of the Department.

In addition to the above, the Freshmen Class has a three-months course in Book-keeping. During this time the students write up as many exercises as time will permit, thus making the course as practical as possible.

Text-Books: Peck's Manual of Algebra; Bryant and Stratton's Book-keeping; Wentworth's Geometry, Trigonometry and Surveying; Peck's Mechanics; White's Astronomy.

See specimen examination for admission into Freshman Class under Conditions for Admission.

For entrance into Sophomore Class students are required to pass an examination on Arithmetic, Algebra and two books of Geometry.

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### PREPARATORY DEPARTMENT.

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DABNEY LIPSCOMB, PROFESSOR IN CHARGE.

The Preparatory Department is designed to furnish such instruction in the elementary branches as will thoroughly prepare the students in it for the lowest College class.

COURSE OF STUDY—This course, which formerly required two years for its completion, is now limited to one year, and the number of students admitted into the department will be determined by the number that can be accommodated in the dormitory in excess of those in the regular College classes.

The course of study embraces the following subjects: English Grammar, Composition, Arithmetic, Algebra to Equations of the First Degree,

Geography, United States History, Agriculture, Penmanship, and Declamation.

Text-Books used: Reed and Kellogg's Graded Lessons in English, Kerl's English Grammar, (Common School Ed,) Thomson's Complete Arithmetic, Peck's Manual of Algebra, Maury's Manual of Geography, Barnes' Brief United States History

Instruction in all these subjects is made as practical and thorough as the nature of the subjects will permit. Especial attention is paid to composition writing by the students, in order that they may thereby acquire a correct and ready use of the English language. The agricultural and industrial features of Geography are prominently set forth. That is, the student is taught not only where a State or country is, its size, capital, etc., but also what is of equal, if not greater importance, its natural features, soil, climate, productions, the industries of its people, and their progress in civilization. Particular stress is laid upon the business portions of Arithmetic, preparatory to the study of Book-Keeping in the Freshman class.

Agriculture is taught by a graduate of the College, assistant in this department, and supplementary lectures upon it are delivered before the classes by the Professors of Agriculture and Chemistry.

The department is well supplied with all necessary furniture, and apparatus for illustration is also provided.

#### CONDITIONS OF ADMISSION.

All applicants for admission into this department must be able to read ordinary prose readily and intelligently, spell words of common use, and write and explain the construction of simple English sentences. They must also be thoroughly acquainted with the principles and operations of Arithmetic through Common and Decimal Fractions.

These conditions, it should be remembered, apply to those only who enter at the opening of the session. Those who come later in the session must be still better prepared, in order that, with profit to themselves and without hindrance to the class, they may unite with it, and take up the various studies assigned to them at whatever points the class may have reached in these studies at the time of their arrival.

See Specimen Examination for admission into the Preparatory Department after Conditions of Admission.

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#### BUILDINGS AND GROUNDS.

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The College buildings are situated on both sides of the branch of the Mobile and Ohio Railroad, which extends from Artesia to Starkville, one and a half miles from the latter place. The grounds about the buildings are being rendered as attractive as possible by the laying out of drives, and the planting of grass and ornamental and shade trees.

The Academic building, 127 by 70 feet, has three stories and a basement. The upper story consists of six rooms used as class rooms by the Professors of Agriculture and Horticulture, the Instructors in the Preparatory Department, and the Instructor in Drawing. The second story consists also of six rooms; serving as class rooms for the Professors of English and Mathematics, except one reserved for the safekeeping of the mathematical instruments. The first floor contains the College Hall, or assembly room, and the offices of the President and Secretary. In the basement the Horticultural Department has its Grafting Room and tool rooms.

The Dormitory, 275 by 140 feet, is a three-story building capable of accommodating from two hundred to two hundred and fifty students. The first floor contains the Library, Museum, lecture room of the Professor of Biology, Commandant's Quarters, and Writing room. On the second floor are students' rooms and the guard-room and armory. The third floor consists wholly of rooms occupied by students.

The Laboratory, 56 by 38 feet, is a two-story building, the upper story of which contains a large lecture room, a large analytical room for students, a private work-room for the Professor of Chemistry, and apparatus rooms. The lower story contains a Balance Room, store-rooms, and four analytical rooms used by the Professor in the discharge of his duties as State Chemist.

The Mess Hall, 82 by 62 feet, is a two-story frame building. On the ground floor is a large dining hall for three hundred students; and to the rear of this, the kitchen, bakery and store-rooms used by the Steward are situated. The second floor is divided into two large halls, handsomely furnished and occupied by the Dialectic and Philotechnic literary societies respectively.

The Hospital is a one-story frame building, containing four large and four small rooms.

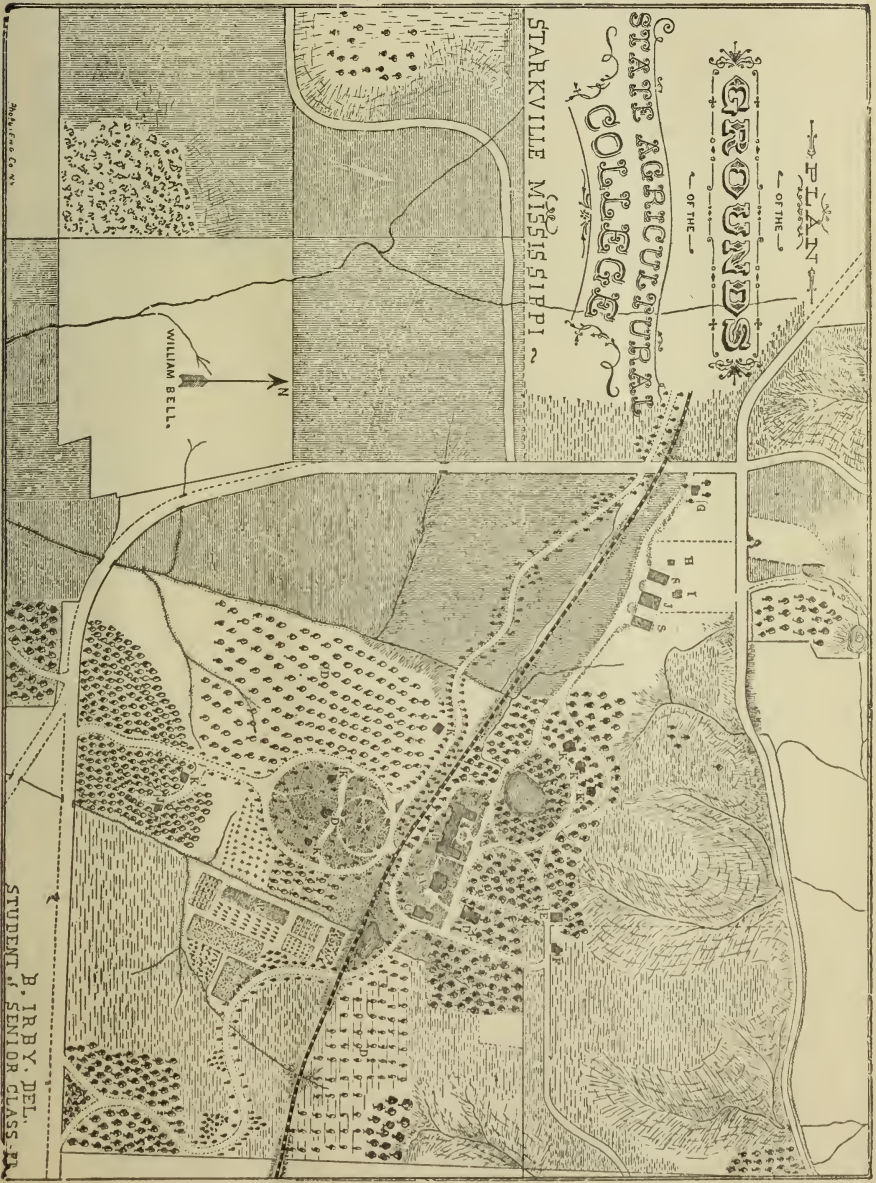
Besides these, there are residences for the President, Professors of Biology, Agriculture, Chemistry, English, Mathematics, and Horticulture, Secretary, Surgeon, and Steward.





EXPLANATION  
TO MAP.

- A—College Hall.
- B—Dormitory.
- C—Laboratory.
- D—Mess Hall
- E—Hospital.
- F—Steward's Cottage
- G—Farm House.
- H—Dairy.
- I—Engine House.
- J—Barn.
- K—Professor's Houses.
- L—President's Mansion.
- O—Orchards.
- P—Vegetable Garden.
- S—Stables for Cows



B. IRBY, DEL.  
STUDENT OF SENIOR CLASS '81

## MISCELLANEOUS.

The students will be required to meet once a week for rhetorical exercises. One week, students from the more advanced classes will declaim or read essays, alternating the next week with some distinguished gentleman or a member of the Faculty, who will deliver an address on subjects having reference to their course of study or work.

### RELIGIOUS EXERCISES.

The daily duties are opened with prayers in the Chapel—Faculty and students being required to be present. On Sunday morning, students can attend any church in the town of Starkville.

Every Sunday afternoon religious exercises will be held in the College Chapel, at which all students must be present. These exercises are conducted, in turn, by the pastors of the different churches in the town of Starkville and vicinity.

### YOUNG MEN'S CHRISTIAN ASSOCIATION.

Besides the regular religious exercises in the College, a devotional service is held every Wednesday night by the Young Men's Christian Association. This Association was organized in the fall of 1882, and has been in successful operation since that time. Its object is to promote the cause of Christianity among the students, by enlisting them in active Christian work.

All services are conducted by members of the Association. The officers for the present year are as follows :

|                               |                 |
|-------------------------------|-----------------|
| PRESIDENT .....               | J. W. LIPSCOMB. |
| VICE-PRESIDENT .....          | J. H. CONNELL.  |
| RECORDING SECRETARY .....     | J. J. GILL.     |
| CORRESPONDING SECRETARY ..... | B. W. STONE.    |
| TREASURER .....               | J. W. CHANDLER. |

### OFFICERS OF ALUMNI ASSOCIATION.

|                        |                        |
|------------------------|------------------------|
| H. H. HARRINGTON ..... | PRESIDENT.             |
| E. C. LUCAS .....      | FIRST VICE-PRESIDENT.  |
| J. M. WHITE .....      | SECOND VICE-PRESIDENT. |
| A. B. MCKAY .....      | SECRETARY.             |

### EXECUTIVE COMMITTEE.

|                      |            |                |
|----------------------|------------|----------------|
| W. L. MCGEE,         | B. IRBY,   | R. M. BEATTIE. |
| D. ROWLAND .....     | ORATOR.    |                |
| G. T. HAMILTON ..... | HISTORIAN. |                |
| W. C. WELBORN .....  | POET.      |                |

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SOCIETIES.

Two Literary Societies, the Philotechnic and Dialectic, furnish a valuable supplement to the academic work of the College. They are supported entirely by the students, who take great interest in them, about two-thirds of the students being usually on the rolls. Their meetings are held weekly, on Friday evening, always open to visitors. Their exercises, which consist of debates, declamations and occasional essays, are well fitted to give students the practical acquaintance with parliamentary usage and the tactics of debate, and the ease and readiness in public speaking, so useful in every walk of life.

Each Society has made the beginning of a library for the use of its members, which will be added to from time to time as their means admit.

The *College Reflector*, published monthly by the Literary Societies, is devoted to educational, literary and industrial topics. It will endeavor to give an accurate account of the workings of the College in its various departments. Though designed primarily to encourage composition writing on the part of Society members, space will be given for the publication of public lectures by members of the Faculty and others and the orations and essays of students. It is controlled and edited by students of the College. Price fifty cents per scholastic year, sample copy free. Address all communications to J. M. Fletcher, Manager, Agricultural College, Miss

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THE LIBRARY.

The Library, with the additions made during the present year, contains 2,807 volumes, and affords facilities for scientific research.

The Reading-room affords a comfortable place where students can assemble and read the periodicals, papers and books obtained from the Library.

The tables have the following State papers which are generously sent for the use of the Reading-room: Dialectic Reflector, Southern Reporter, Greenville Times, Signal-Coniahah, Clarion-Ledger, Sea-Coast Beacon, Columbus Index, Pascagoula Democrat-Star, East Mississippi Times, True Democrat, Holly Springs South, Kemper County Herald, Tuleo Journal, Lexington Advertiser, Meridian Weekly News, Southern Live-Stock Journal, Winston Signal, Yazoo City Herald, Yazoo City Sentinel.

Leading papers from different cities of the Union are also on the tables, with magazines, reviews, etc.

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VACATIONS.

The summer vacation extends from the third Wednesday in June, to the third Wednesday in September, on which latter day all students should be present at the College. Students are not permitted to be withdrawn before

they are released by the College authorities, and are required to return promptly at the proper time.

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#### SCHOLARSHIP AND ATTENDANCE.

Students are carefully graded in their different studies. The maximum is 100; each student must average sixty or he is pronounced deficient.

As each study is completed, an examination is held in that study. The sum of the examination mark and the average of the daily marks in each study divided by two constitutes the final mark or grade. Should this fall below 60, the student is pronounced deficient. Students failing will be allowed a reasonable time for a new examination. Those failing in two studies at any time will not be permitted to go on with their class. As the instruction is given largely by lectures and work in the laboratory and field, it very important for students to remain or be present during the entire session.

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#### DEGREES.

The Degree of Bachelor of Science is conferred upon students who complete the College curriculum and pass all the required examinations.

Graduates of this Institution are earnestly recommended to take a post-graduate course of study in Agriculture, Horticulture, Chemistry or Botany. These courses of instruction are also open to the graduates of other Colleges, who will be required to pay the usual matriculation fee; and, in case Chemistry or Biology is selected, the student will be charged for the chemicals and materials used.

Students who take either of these courses of study will be exempt from military duties and compulsory labor, but will be subject to the regulations of the Faculty. The degree of M. S. will be conferred upon those students who pursue such a course of study for two years and pass the required examination.

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#### POST-GRADUATE COURSE.

The degree of Master of Science will be conferred on any student who has taken the Bachelor's Degree in this College, or in any other College with equivalent courses, and who pursues and completes the Post-Graduate course herein prescribed.

Every candidate for the Master's degree will be required to take the course in English, under the direction of the Professor of English, and any one of the scientific branches he may select. The amount of work to be performed will be equivalent to two year's work in the preparatory courses, and will be determined by the Faculty, and the degree conferred, only,



after the candidate shall have passed an approved examination and have written a thesis on some subject connected with his study, other than the English, which shall be acceptable to the Faculty.

#### COURSE OF STUDY.

**BIOLOGY.**—Mycology, Fertilization and Cross Fertilization, relation of Insects and Plants, Histology, Zoology, including Embryology, with monthly written discussions, under direction of Professor of Biology.

**AGRICULTURE.**—Principles of stock-breeding and feeding, theory of Drainage, Cultivation, curing and marketing crops, improvement of soil and manure supply. The student will be required to take charge of field and feeding experiments, dairy and general farm work under direction of the Professor of Agriculture.

**HORTICULTURE.**—Pomology, Floriculture, Landscape Gardening, Forestry, Geographic Botany, Economic Botany, management of glass houses, Entomology continued, which includes Embryology, Morthology, Anatomy and Physiology of insects, Silk Culture, Apiary, under the direction of Professor of Horticulture.

**CHEMISTRY.**—Chemistry applied in the analysis of soils, plants, foods, animal tissues and products, feeding, water and other drinks, under the direction of the Professor of Chemistry.

**ENGLISH.**—A course of reading in English prose and poetry, embracing entire works, Logic and Mental Science, with monthly written essays, under the direction of the Professor of English.

**MATHEMATICS.**—Analytical Geometry, Differential and Integral Calculus, Applied Mechanics, and Civil Engineering.

#### CONDITIONS OF ADMISSION.

Students must be not less than 15 years of age, and in good health. In case of two brothers, one over and the other under 15, both may be taken if the younger is near the age, and can be graded in any of the established sections in the College. Should students come from other Colleges, they must present evidence of an honorable discharge.

Before admission, all applicants must submit to an examination. If applicants for the Freshman Class, they must be thorough in Arithmetic, Geography, Grammar, Reading, Spelling, Writing and United States History.

Students will be admitted into the Freshman, or any more advanced class at any time, provided they can stand an examination in all the previous studies of the course.

Applicants for admission into the Preparatory Department must be able to read ordinary prose readily and intelligently, to spell words of common use, and to write and explain the construction of simple English sentences ;

they must also be thoroughly acquainted with the principles and operation of Arithmetic through Common and Decimal Fractions.

Students who desire to devote their time to study of special subjects bearing on agriculture or the mechanic arts, such as Chemistry, Botany, Physiology, Mechanics, etc., can take a select course, provided they pass an examination which would admit them into the Freshman Class and, in addition, shall pass such examinations as the Professor in charge of the respective department selected shall prescribe.

Should students desire to take a select course because they may have failed in any examination in the regular course, they will be permitted to do so; but in no instance can they pursue any study in advance of their proper class, till they may have made up the deficient study.

Superintendents of Education are earnestly requested to ascertain if applicants can enter the Preparatory Department at least, as to make the grade lower, would make this Department a primary class. Students will have to be rejected unless they can come up to the standard.

The recent act of the Legislature apportioning students to the College, has been decided by the Attorney-General inoperative till after the close of next session, as it does not go into effect until October 1st, after the opening of the session. Still the Board intend to carry it out in spirit. The number of students in Dormitory is fixed at 300, and the apportionment is made as indicated by law. It is the evident intention of the law to protect students now at College who entered in good faith for the next session. Such students will not be charged tuition for the next session, except those who live near enough to the College to board at home. New students entering College from any county over and above the number apportioned to the county, will be required to pay a tuition fee of three dollars a month, which is also the amount required of those boarding at home.

Tuition students will be allowed to occupy rooms in the Dormitory unless it is already fully occupied by free tuition students; in which case they can board in Starkville ( $1\frac{1}{4}$  miles distant) or in the vicinity.

Any applicants from the State can attend the College by paying a tuition fee of three dollars a month, but cannot always be provided with rooms in the Dormitory.

Superintendents of Education in the different counties are requested to designate the free tuition students, where the number allowed is not already at College; but all applicants, those now at College and those desiring examinations, will pass their names through County Superintendents, who will certify them to the President of the College as free tuition students from their respective counties. Tuition must be paid in advance for each term of three months.

Owing to the decision of Attorney-General, County Superintendents of Education are requested to co-operate with the President in carrying out the spirit of the law, as it is doubtful whether Boards of Supervisors will act until after the session of 1888 and 1889.

## APPORTIONMENT LAW.

*AN ACT to apportion the students at the A. & M. College and the Industrial Institute and College to the several counties of this State, and for other purposes.*

SECTION 1. *Be it enacted by the Legislature of the State of Mississippi,* That immediately after the close of the present term, or scholastic year, the number of students allowed free tuition at the A. & M. College and the I. I. & College, shall be limited to three hundred each, and the boards of trustees of these institutions of learning are hereby required to apportion the number allowed said colleges to the several counties in this State on the basis of the white educable children, male and female respectively.

SEC. 2. *Be it further enacted,* That it shall be the duty of the respective presidents of the colleges, when said apportionments are made, to notify the superintendents of public education of each and every county in this State of the number of students to which his county is entitled under said apportionment, and said superintendent shall give thirty days notice by advertising in some newspaper in his county, and if there is no newspaper, by posting notices in each supervisor's district in his county, of the time and place, not to be later than the 1st Monday in September in each year, when he will examine all applicants for appointment to the colleges. He shall, after due examination, grade the certificates of scholarship of each applicant and submit the same to the board of supervisors of his county, and said board shall appoint from all the applicants, if there be more than the number apportioned to the county, the number to which the county is entitled, and the clerk of the board shall forthwith certify said appointments with the names of the applicants to the president of the college to which the students are assigned, under the seal of the board of supervisors.

SEC. 3. *Be it further enacted,* That the presidents of the colleges be authorized to receive from counties having their full quota of free students as many applicants for admission to the college as he may deem proper; *provided,* such action does not exclude students, or interfere with their instruction from counties having a right to free tuition under this act; but all students in excess of the number apportioned to the several counties shall pay such reasonable rate of tuition as the boards of trustees, respectively, may prescribe, not to be less than three nor more than five dollars per month, which money shall go to the college treasury, to be expended in its support, and the presidents of the colleges in their biennial reports shall show the amounts of money received from this source, and the manner of its disbursement.

SEC. 4. *Be it further enacted,* That when the number of free scholarships shall from any cause be reduced below the maximum number apportioned by this act, the president of the college shall forthwith notify the superintendent of public education of such vacancy from his county, and said superintendent shall proceed to fill said vacancy as prescribed in section 2 of this act.

SEC. 5. *Be it further enacted,* That this act take effect and be in force from and after the 1st day of October, 1888.

Approved March 5, 1888.

### APPORTIONMENT TO COUNTIES UNDER THE NEW AP- PORTIONMENT BILL.

| <i>County.</i>  | <i>No. Entitled.</i> | <i>County.</i>    | <i>No. Entitled.</i> |
|-----------------|----------------------|-------------------|----------------------|
| Adams.....      | 4                    | Lincoln.....      | 5                    |
| Alcorn.....     | 6                    | Lowndes.....      | 6                    |
| Amite.....      | 3                    | Madison.....      | 4                    |
| Attala.....     | 7                    | Marion.....       | 2                    |
| Benton.....     | 3                    | Marshall.....     | 7                    |
| Bolivar.....    | 2                    | Montgomery.....   | 4                    |
| Calhoun.....    | 9                    | Monroe.....       | 7                    |
| Carroll.....    | 5                    | Neshoba.....      | 4                    |
| Chickasaw.....  | 6                    | Newton.....       | 5                    |
| Choctaw.....    | 5                    | Noxubee.....      | 3                    |
| Claiborne.....  | 2                    | Oktibbeha.....    | 3                    |
| Clarke.....     | 4                    | Panola.....       | 7                    |
| Clay.....       | 3                    | Perry.....        | 1                    |
| Coahoma.....    | 1                    | Pike.....         | 5                    |
| Copiah.....     | 9                    | Pontotoc.....     | 5                    |
| Covington.....  | 1                    | Prentiss.....     | 6                    |
| DeSoto.....     | 4                    | Quitman.....      | 1                    |
| Franklin.....   | 3                    | Rankin.....       | 4                    |
| Greene.....     | 1                    | Scott.....        | 4                    |
| Grenada.....    | 3                    | Sharkey.....      | 1                    |
| Hancock.....    | 3                    | Simpson.....      | 3                    |
| Harrison.....   | 4                    | Smith.....        | 5                    |
| Hinds.....      | 6                    | Sunflower.....    | 1                    |
| Holmes.....     | 5                    | Tallahatchie..... | 3                    |
| Issaquena.....  | 1                    | Tate.....         | 5                    |
| Itawamba.....   | 5                    | Tippah.....       | 6                    |
| Jackson.....    | 4                    | Tishomingo.....   | 5                    |
| Jasper.....     | 4                    | Tunica.....       | 1                    |
| Jefferson.....  | 2                    | Union.....        | 7                    |
| Jones.....      | 5                    | Warren.....       | 4                    |
| Kemper.....     | 5                    | Washington.....   | 2                    |
| Lafayette.....  | 6                    | Wayne.....        | 2                    |
| Lauderdale..... | 7                    | Wilkinson.....    | 3                    |
| Lawrence.....   | 3                    | Webster.....      | 4                    |
| Leake.....      | 5                    | Winston.....      | 3                    |
| Lee.....        | 7                    | Yalobusha.....    | 3                    |
| Leflore.....    | 1                    | Yazoo.....        | 5                    |

## SPECIMEN EXAMINATIONS

FOR ENTRANCE INTO THE FRESHMAN CLASS.

### ENGLISH GRAMMAR.

I. Define English Grammar. Name its general divisions and define each.

II. Name the parts of speech, and give an example of each class.



III. How are pronouns divided? Name some pronouns belonging to each class.

IV. Decline these words: fox, I, it, and who.

V. Compare evil, little, ample, industrious, well, happy, wisely and badly.

VI. Show both by definition and illustration, the difference between an adjective and an adverb.

VII. Name and illustrate the different kinds of verbs. Give a synopsis of the verb know in the active voice.

VIII. Give the principal parts of the verbs be, lie, lay, fly, flee, sit, set, seek, and choose.

IX. Classify sentences with respect both to form and meaning, and illustrate each class.

X. Write a complex sentence containing an adjective clause or proposition; another containing an adverbial clause or proposition.

#### UNITED STATES HISTORY.

I. Mention and define the Periods of United States History.

II. Give a brief outline of each period.

III. Mention and define the different forms of colonial government.

IV. What were the causes of the secession of the colonies?

V. Mention the most important battles of the Revolution.

VI. What State was once an independent republic?

VII. Give the principal events of Madison's administration.

VIII. Give the principal events of Polk's administration.

IX. Give the causes that led to the War of Secession.

X. Give the principal battles which were fought during this war.

#### GEOGRAPHY.

I. Name the grand divisions of the globe, and the waters that border them.

II. Name the principal mountains, plateaus, rivers, and lakes of each grand division.

III. Name the countries of Europe, and give their capitals.

IV. Name the most important commercial cities of the world, and give the approximate population of each.

V. What are the staple products of each nation of South America?

#### MATHEMATICS

$$I. \left( \frac{2\frac{2}{3} + 3\frac{1}{5}}{5\frac{1}{2} - 2\frac{1}{4}} \right) \div \left( \frac{6 \text{ of } \frac{2}{3} \text{ of } 3\frac{1}{2}}{\frac{5}{8} \div 2\frac{1}{6}} \right) = (?)$$

$$II. \left( \frac{.00516 + .700814}{6.516 - 3.20004} \right) \left( \frac{.1}{.0001} \right) = (?)$$

III. If 5 men in 6 days, working 7 hours a day, can build a wall 80 feet

long, 5 feet high and 3 feet thick; how many days will it take 7 men working 10 hours a day to build a wall 90 feet long, 3 feet high and 2 feet thick?

IV. Find the interest (simple) on \$818.18, @  $7\frac{1}{2}$  per cent per annum, for five years, 5 months and 5 days.

V.  $\sqrt{33333333} = (?)$

Applicants for admission during session will, in addition to above, be examined in so much of Algebra as the class has passed over up to time of application. To enter about January 1st the applicant must be thoroughly prepared on the following:—

Fundamental operations of Algebra; greatest common division and least common multiple; fractions; equations of first degree; formation of powers and extraction of roots. Text-book, Peck's Manual of Algebra.

**Specimen Examination for Admission into the Preparatory Department.**

1st. Reading from some standard work.

2d. Spelling upon the blackboard such words as these: sincere, separate, ceiling, freight, dairy, imitate, business, necessary, transferred, decimal, receive, believe, etc.

3d. Grammar.

Define a sentence. Name the principal parts of every sentence. Name all the parts of speech.

Write a sentence containing an adjective and an adverb. Analyze it, and parse all the words in it. Decline the pronoun I.

Give two rules for the use of the period; three rules for the use of capital letters.

4th. Arithmetic.

Oral Exercises—Count by 9's from 3 to 66; also by 7's from 51 back to 2.

If a man earn \$65 a month, and spend \$47, how much will he save in five months?

Add 2.5 and 3.8. Subtract 2.3 from 8.7.

Written Exercises—Multiply 3.4 by 4 in 2 ways. Divide 6.7 by 3 in two ways. Add 1 3/4, 3 2/7 and 1.2 of 9.

From 2.3 of 9-10 take 1.12 of 2.

If 6.7 of a bushel of apples cost 3 5/8 of a dollar, what will the whole bushel cost?

Add fifteen and fifteen millionths, five hundred and eighty-five thousandths, twenty-five thousandths, and one and one-tenth.

Multiply twenty-five thousand by twenty-five thousandths.

Divide forty-two thousandths by six hundredths.

Reduce  $\frac{7}{8}$  to a decimal fraction. Reduce 625 to a common fraction.

These questions, of course, serve merely as an indication of what the applicant is required to know before he can enter the Preparatory Department.

ment, and apply to those only who enter at the beginning of the session. Those who arrive after the opening of the session, will not only be given such an examination, as the above, but will also be examined on the various studies of the Preparatory class as far as that class may then have progressed in those studies. For instance, applicants for admission on or about the first of January, will, in addition to the examination required at the first of the session, be examined on the studies which the Preparatory students passed over from October to January; namely, Arithmetic, to Percentage; English Grammar, through the Analysis of Compound and Complex sentences; and Geography to the Map of Asia.

#### EXPENSES.

All students are required, by a resolution of the Board of Trustees, to wear the prescribed uniform, within five miles of the College building. The suit, consisting of cap, coat, pants, cost during the past year, \$16.35. The material is cadet gray.

A matriculation fee of five dollars entitles the apportionment students to the privileges of the entire course.

Tuition is free to such students as attend college under apportionment bill for the regular curriculum, or any of the studies in it, where taken with any of the regular classes of the College.

Students in Sophomore year pay for chemicals used and apparatus broken. This will probably not exceed \$15.

The College furnishes a room free of rent in the Dormitory giving preference to those apportioned. Students must supply themselves with all necessary furniture, such as bedstead, bedding, table, wash-stand, etc., which, when two boys are together, costs about \$12.

Board is furnished at actual cost. The expenses at the end of each month are made up by the Steward, and divided among the students in the Dormitory. This expense includes keeping up the dinning hall, sweeping and lighting the halls of the Dormitory, kerosene for lamps of students in their rooms, replacing broken crockery, etc., necessary to keep the boarding department in efficient working order.

The average expense per month, for the present year, has been \$8.00. Washing can be had at about 40 cents per dozen.

The surgeon's fee, which includes attention and medicine, is \$5.00 for each student, and must be paid at the beginning of each session, or when he enters.

The year is divided into three terms. Each student at the beginning of each term must deposit \$20 to meet his board bill for that term. He must at least have enough at the end of each month to pay his board for the ensuing month. All money deposited is allowed in settlement of accounts at the end of the term, or at any time. There must be a settlement at the end of each month; students who cannot pay must leave the College.

No honorable discharge will be given any student till he pays all his dues.

To assist in meeting expenses students are required to labor from two to three hours each day, three to five days in the week, limited by money appropriated for this purpose. This is compulsory. With ordinary weather this will enable the student to earn about \$25 a year. Some students have earned as much as \$50.

Students can also labor on Saturday, and very frequently they can work longer than three hours daily during the week. Those who do this earn much more, and it goes far toward meeting their expenses.

For labor faithfully performed, they are paid eight cents per hour.

Quite a number of students have, by their labor on the farm, brought their total expenses down to an average of one hundred dollars for the session. This includes board, fuel, washing, clothing and traveling expenses.

LABOR—All students living in the Dormitory are required to labor three hours daily for five days in the week, (the weather permitting.) This is arranged, as far as practicable, in illustration of studies and lectures. The Junior Class will generally work in the gardens, orchards, and on the grounds; the Sophomore class in the farm; the Senior and Freshman Classes in farm or garden, or where their studies indicate.

Students are required to pay to the Secretary at the beginning of the first term:

|                        |         |
|------------------------|---------|
| Matriculation fee..... | \$ 5 00 |
| Medical fee.....       | 5 00    |
| For uniform.....       | 16 35   |
| Advance on board.....  | 20 00   |

In addition to which, they must have the means to furnish their rooms, and purchase books. At the beginning of the second and third terms, students must pay to the Secretary \$20 advance on board. The College authorities assume no responsibility in regard to the expenditure of money by students.





## THE MILITARY ORGANIZATION.

GENERAL S. D. LEE, President, The Head of the Military Department.

SECOND LIEUTENANT HENRY C. DAVIS, 3D U. S. ARTILLERY,  
Commandant of Students.

### FIELD AND STAFF.

MAJOR.....J. E. TERRAL.  
FIRST LIEUTENANT AND ADJUTANT.....E. E. RAND.  
FIRST LIEUTENANT AND QUARTER-MASTER.....R. C. KING.

### NON-COMMISSIONED STAFF.

SERGEANT MAJOR.....M. BROWN.  
ORDNANCE SERGEANT.....J. J. GILL.

### COLOR GUARD.

|                       |                       |
|-----------------------|-----------------------|
| SERG. W. N. HARDEE,   | CORP'L O. W. BALDWIN, |
| CORP'L J. DARRINGTON, | " T. B. WORD,         |
| " F. M. VAUGHAN,      | " M. R. PURNELL,      |
| " C. B. AMES,         | " W. F. NELSON.       |

### FIELD MUSIC.

| DRUMMERS.               | BUGLERS.            |
|-------------------------|---------------------|
| SERG. L. K. SHARPE,     | PRIV'T W. H. GOWEN, |
| CORP'L G. E. WEST,      | " W. A. LAKE,       |
| PRIVT. G. W. COVINGTON, | " C. L. LYERLY.     |

### COMPANY A.

CAPTAIN.....C. L. GEORGE.  
1ST LIEUTENANT.....J. W. McWILLIAMS.  
2ND LIEUTENANT.....J. W. FOX.  
1ST SERGEANT.....E. B. STINSON

Aggregate strength of Company, 42.

### COMPANY B.

CAPTAIN.....H. P. HUGHES.  
1ST LIEUTENANT.....R. L. WOODWARD.  
2D LIEUTENANT.....J. M. FLETCHER.  
1ST SERGEANT.....J. S. MENG.

Aggregate strength of Company, 47.

## COMPANY C.

|                     |                 |
|---------------------|-----------------|
| CAPTAIN .....       | B. W. SAFFOLD   |
| 1ST LIEUTENANT..... | E. A. GILLERT.  |
| 2D LIEUTENANT.....  | J. W. CHANDLER. |
| 1ST SERGEANT .....  | J. H. MCKINNEY. |

Aggregate strength of Company, 39.

## COMPANY D.

|                     |                  |
|---------------------|------------------|
| CAPTAIN.....        | R. L. WHITE.     |
| 1ST LIEUTENANT..... | C. S. MIDDLETON. |
| 2D LIEUTENANT.....  | C. A. McCLAIN.   |
| 1ST SERGEANT.....   | C. N. ANDERSON,  |

Aggregate strength of Company, 41.

## COMPANY E.

|                     |                 |
|---------------------|-----------------|
| CAPTAIN.....        | A. C. MAGRUDER. |
| 1ST LIEUTENANT..... | J. W. LIPSCOMB. |
| 2D LIEUTENANT.....  | J. H. MCKAY.    |
| 1ST SERGEANT.....   | J. F. MCKAY.    |

Aggregate strength of Company, 32.

By College Regulations, all students are subject to military discipline, and are members of the corps of students.

Companies A, B, C, and D, are formed from students residing in the Dormitory, and Company E from the day students.

The PRESIDENT, by College Regulations, is responsible for the government and management of the College, and supervises and controls all the departments, collegiate and otherwise, and by him are given all punishments of certain grades, and he makes out the scale of demerits.

The COMMANDANT has immediate command of the corps of students, and is responsible for the military organization. On his recommendation, are appointed by the President, the officers and non-commissioned officers of the corps. He inspects the Dormitory at least once per week and reports to the President its condition and the discipline of the students. As inspector of commons, he reports to the President all irregularities in the mess-hall, every infraction of mess-hall regulations, and the character of the food when complaints of the fare are made by the students. He has immediate charge of the drills and other military exercises, and through him are submitted all permits for privileges, all excuses and explanations for delinquencies. It is his duty to report to the President, for his action, all violations of the College regulations, and in every way assist the President and Faculty in their efforts to enforce discipline, and he sees that the punishments given by them are served.

The students march to and from their meals in the mess-hall, where good order and proper conduct are insisted on. The different classes and sections

march to and from the class-rooms under command of one of their number called the "section-marcher."

Guard duty is taught by guard-mounting every morning, and sentinels are posted in the halls whenever the battalion is absent from the Dormitory.

This duty is made as light as possible, and not allowed to interfere with the studies of the students, who go on guard about every ten days.

The students rise early and retire at 10 P. M., take their meals regularly and study and work at regular hours.

The Military Organization is not made the special feature of the College, and always yields to the interests of the more important one—the Agricultural.

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### DISCIPLINE.

To enforce discipline and preserve orderly conduct, reports are made by the student officers and non-commissioned officers, and demerits given by the President for those reports not removed on explanation submitted to the Commandant. Students have the right of appeal in writing through the Commandant, to the President, when they think that injustice has been done them.

The scale of demerits is from 1 to 5, according to the degree of the offense.

The grades of punishment are :

I. Reprimand, demerits, privation of recreation, and walking extras.

II. Arrest, confinement to room, tent, or limits, and reduction to ranks of officers and non-commissioned officers.

III. Suspension, dismissal with privilege of resigning, and public dismission.

IV. Expulsion.

Only the President and Faculty can award punishments. Those of 1st and 2d grades are given by the President, and those of 3d and 4th grades by the Faculty.

In order to maintain discipline, do justice to all, clearly discriminate between the faithful and unfaithful, and render a correct report of conduct, class-standing, etc., at the end of each month, the attention of patrons of the College is respectfully directed to the following regulations governing absences, and their co-operation is earnestly requested :

I. After regularly matriculating, no student, except on recommendation of the surgeon, will be allowed to go home or elsewhere, except at such time as the Faculty may designate, unless the parent or guardian explicitly direct the President to grant the privilege.

II. All applications for leave to go home or elsewhere, must be for a specific time.

III. Any student who is on leave of absence and cannot return at the

expiration of the time granted, must notify the President, give reasons therefor, and ask for extension of leave—designating the date on which he hopes to return; otherwise his name may be dropped from the rolls and some one else taken to fill the vacancy.

IV. Students who are absent on account of sickness are requested to report before the end of each month their state of health and probability of returning that session.

V. Any student absent four consecutive weeks shall not be allowed to continue with his section upon return, except by special permission of the Faculty. Patrons are earnestly requested not to permit their sons to remain away from the College, at any time during the session, one moment longer than is absolutely necessary; as it is a very great detriment to the student himself, in a measure detrimental to his class, and very discouraging to the instructor to have students lose the benefits of even one lecture, or the explanations of a single recitation.

The discipline has for its chief aim and object to secure, with as little severity as possible, prompt and cheerful obedience to, and respectful, quiet demeanor towards the College authorities, orderly conduct in the section rooms, dormitory, mess-hall, chapel, and in the fields. The military feature is the most effective means of enforcing and securing discipline. The company and battalion organizations give to the officers and non-commissioned officers acquaintance with the proper exercise of authority, and the students acquire habits of obedience.

This feature and the discipline are made to conduce to the furtherance of the principal aim and object of the College—its industrial feature.

## AGRICULTURAL EXPERIMENT STATION.

### GOVERNING BOARD.

GEN. S. D. LEE.....President A. & M. College.  
HON. W. B. MONTGOMERY.....Local Trustee A. & M. College.  
S. M. TRACY.....Director.

### WORKING FORCE.

S. M. TRACY, M. S.....Director.  
B. IRBY, M. S.....Agriculturist.  
J. H. CONNELL.....Assistant Agriculturist.  
A. B. McKAY, B. S.....Horticulturist.  
D. L. PHARES, M. D.....Veterinarian.  
J. A. MYERS, A. M.....Chemist.  
B. VON HERFF, PH. D.....Assistant Chemist.  
T. F. WATSON.....Treasurer.



By an Act of Congress approved March 2, 1887, provision was made for the establishment of an Agricultural Experiment Station in each State and Territory, and on January 30, 1888, an additional Act was passed providing funds for the necessary expenses of the Stations. On January 27, 1888, the State Legislature of Mississippi accepted this grant on behalf of the State, and located the Mississippi Station at the Agricultural College.

The Act of Congress making provision for the establishment of the Station says:

"SEC. 2. That it shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States or Territories."

It is the intention of the Governing Board to make the work of the Station entirely practical, so as to bring its results within the reach of every farmer in the State. Special attention will be given to ascertaining the best methods for restoring fertility to exhausted soils, to the comparative advantages of different crop rotations, to improved dairy methods, to the value of new varieties of plants for cultivation in this climate, to the introduction of new species of grasses and forage plants and to the best methods for destroying injurious insects and fungi. Specimens of plants or insects for identification, samples of agricultural products, plants showing the effects of disease, and any other objects of general interest may be sent to the Station for examination. Such articles intended for examination should be plainly marked with the name and address of the sender, and be sent, EXPRESS CHARGES PREPAID, to

DIRECTOR OF EXPERIMENT STATION,

Starkville, Miss.

Letters and mail packages should be addressed to

DIRECTOR OF EXPERIMENT STATION,

Agricultural College, Miss.

Bulletins or reports of work done at the Station will be published at least once in three months, and at the end of each year a full annual report will be issued. These bulletins and reports will be mailed free to all residents of the State who apply for them, and who are actually engaged in farming, as far as the means of the Station will permit.



## COMMENCEMENT EXERCISES FOR 1888.

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Commencement Sermon, Sunday, June 17th,

By REV. DR. W. C. BLACK, MERIDIAN, MISS.

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### MONDAY, JUNE 18TH.

|                                  |      |       |
|----------------------------------|------|-------|
| SOPHOMORE ADDRESSES.....         | 11   | A. M. |
| DRESS PARADE OR SHAM BATTLE..... | 4    | P. M. |
| ALUMNI ASSOCIATION.....          | 8:30 | P. M. |

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### TUESDAY, JUNE 19TH.

|                       |      |       |
|-----------------------|------|-------|
| JUNIOR ADDRESSES..... | 11   | A. M. |
| SENIOR ADDRESSES..... | 8:30 | P. M. |

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### WEDNESDAY, JUNE 20TH.

AGRICULTURAL AND HORTICULTURAL DAY—Exhibit of Products upon the grounds. Cattle Display.

ANNUAL ADDRESS, By HON. ETHEL BARKSDALE..... 11 A. M.  
Delivery of Diplomas to the Graduating Class, with Baccalaureate Address by the President.

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### CALENDAR FOR 1888-1889.

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The scholastic year begins the third Wednesday in September and ends the third Wednesday in June.

The session is divided into three terms. The first begins the third Wednesday in September, and closes the 31st of December. The second term begins January 1, 1889, and closes April 1st. The third term begins April 1st, and closes the third Wednesday in June.

The session of 1888-'89 begins the third Wednesday of September next, and closes the third Wednesday of June, 1889.



NINTH  
Annual Catalogue

—OF THE—

Agricultural and Mechanical

COLLEGE

—OF—

MISSISSIPPI,

• 1888-89. •



Postoffice, - - - Agricultural College, Miss.  
Telegraph and Express Office, - - - Starkville, Miss.

ANNOUNCEMENT,

—1889-90.—

JACKSON, MISS.:

CLARION-LEDGER PRINTING ESTABLISHMENT.

1889.

AGRICULTURAL  
EXPERIMENT STATION  
APR 29 1890  
UNIVERSITY OF ILLINOIS



## TRUSTEES.

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HIS EXCELLENCY ROBERT LOWRY.. ... EX-OFFICIO PRESIDENT.  
HON. W. L. HEMINGWAY..... EX-OFFICIO TREASURER.

### **Executive Committee.**

HON. H. M. STREET..... Meridian.  
DR. H. A. MINOR..... Macon.  
COL. W. B. MONTGOMERY..... Starkville.

### **Trustees Whose Terms Expire in 1890.**

DR. H. A. MINOR..... Macon.  
HON. H. M. STREET..... Meridian.  
HON. J. Z. GEORGE..... Jackson.

### **Trustees Whose Terms Expire in 1892.**

HON. L. B. BROWN..... Enterprise.  
DR. GEO. H. PEETS..... Woodville.  
HON. J. R. CAMERON..... Canton.

### **Trustees Whose Terms Expire in 1894.**

COL. W. B. MONTGOMERY..... Starkville.  
HON. J. M. STONE..... Iuka.  
MAJ. T. C. DOCKERY..... Hernando.

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T. F. WATSON..... SECRETARY.





# MEMBERS OF FACULTY.

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## AND OTHER OFFICERS.

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### EXECUTIVE DEPARTMENT.

GEN. S. D. LEE, President.

### DEPARTMENT OF AGRICULTURE.

B. IRBY, M. S., Professor.

### DEPARTMENT OF HORTICULTURE.

A. B. MCKAY, B. S., Professor.

### DEPARTMENT OF BIOLOGY.

D. L. PHARES, A. M., M. D., Professor.

G. C. CREELMAN, B. S. A., Assistant.

MISS MARY PHARES, Botanist.

### DEPARTMENT OF CHEMISTRY.

W. L. HUTCHINSON, B. S., Professor.

B. W. KILGORE, B. S., Assistant.

### DEPARTMENT OF ENGLISH.

W. H. MAGRUDER, A. M., Professor.

J. M. WHITE, M. S., Assistant.

### DEPARTMENT OF MATHEMATICS.

\*B. M. WALKER, M. S., Professor.

LIEUT. HENRY C. DAVIS, U. S. A., Act'g Professor.

W. L. MCGEE, M. S., Assistant.

### DEPARTMENT OF MILITARY SCIENCE AND TACTICS.

LIEUT. HENRY C. DAVIS, 3d Artillery, U. S. A., Professor and Commandant of Students.

### EXPERIMENT STATION.

S. M. TRACY, M. S., Director.

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\*In Germany on Leave of Absence.

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## PREPARATORY DEPARTMENT.

DABNEY LIPSCOMB, A. M., Professor.

J. J. HUGGINS, M. S., Assistant.

R. M. BEATTIE, B. S., Instructor.

F. Y. PRESSLY, A. B., B. S., Instructor.

E. L. DIMITKY,  
Instructor in Drawing.

J. H. WELLBORN,  
Instructor in Writing.

T. F. WATSON,  
Secretary and Purchasing Agent.

W. H. BARR, M. D.,  
Surgeon.

W. J. GALLOWAY,  
Steward and Janitor.

J. N. MCKELL,  
Foreman of Farm.



# Degrees Conferred

On Commencement Day, 1888.

## MASTER OF SCIENCE.

W. L. MCGEE, B. S. of A. & M. College, Miss. . . . . A. & M. College, Miss.  
J. F. DUGGAR, B. S. of A. & M. College, Miss. . . . . A. & M. College, Texas

## BACHELOR OF SCIENCE.

|                    |                         |
|--------------------|-------------------------|
| E. E. ABBOTT       | Oktibbeha county, Miss. |
| C. C. BARDWELL     | Oktibbeha county, Miss. |
| J. H. CONNELL      | Lowndes county, Miss.   |
| Miss M. du QUERCRO | Oktibbeha county, Miss. |
| C. L. GEORGE       | Clarke county, Miss.    |
| E. L. GLADNEY      | Chickasaw county, Miss. |
| H. P. HUGHES       | Claiborne county, Miss. |
| B. W. KILGORE      | Lafayette county, Miss. |
| R. C. KING         | Kemper county, Miss.    |
| J. W. LIPSCOMB     | Lowndes county, Miss.   |
| A. C. MAGRUDER     | Oktibbeha county, Miss. |
| R. E. MEBANE       | Marshall county, Miss.  |
| G. W. McCLAIN      | Marshall county, Miss.  |
| J. F. McKAY        | Madison county, Miss.   |
| J. H. McKAY        | Madison county, Miss.   |
| Miss M. C. McKAY   | Madison county, Miss.   |
| E. E. RAND         | Marshall county, Miss.  |
| B. W. SAFFOLD      | Harrison county, Miss.  |
| J. E. TERREL       | Clarke county, Miss.    |
| R. L. WHITE        | Copiah county, Miss.    |
| J. D. WILKINSON    | Choctaw county, Miss.   |
| R. L. WOODWARD     | Smith county, Miss.     |



MEDALS AWARDED IN 1888.

MAGRUDER MEDAL TO BEST DECLAIMER IN FRESHMAN CLASS.  
CHARLES STRONG.....Monroe county, Miss.

JOINT LITERARY SOCIETY MEDALS FOR EXCELLENCE IN DEBATE.  
B. W. KILGORE.....Marshall county, Miss.  
E. B. STINSON.....Lauderdale county, Miss.

DIALECTIC SOCIETY PRIZE DECLAMATION.  
E. L. SYKES... ..Monroe county, Miss.

PHILOTECHNIC SOCIETY PRIZE DECLAMATION.  
W. F. NELSON... ..Copiah county, Miss.

MONROE MEDAL FOR BEST DRILLED COMPANY.  
COMPANY A.... ..C. L. GEORGE, Captain.





## POST GRADUATE CLASS.

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|                                                        |               |
|--------------------------------------------------------|---------------|
| J. H. CONNELL, B. S.....                               | Agriculture.  |
| G. C. CREELMAN, B. S. A., (University of Toronto)..... | Biology.      |
| B. W. KILGORE, B. S.....                               | Chemistry.    |
| A. B. McKAY, B. S.....                                 | Horticulture. |
| P. W. SAFFOLD, B. S.....                               | Horticulture. |

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## UNDER-GRADUATES.

### SENIOR CLASS.

| NAME.               | COUNTY.     | NAME.                 | COUNTY.     |
|---------------------|-------------|-----------------------|-------------|
| ANDERSON, C. N....  | Lauderdale. | JOINER, B. H.....     | Oktibbeha.  |
| BROWN, M.....       | Monroe.     | LOCKARD, W. L.....    | Lauderdale. |
| CHANDLER, J. W..... | Noxubee.    | MANIRE, J. T.....     | Oktibbeha.  |
| FORT, W. A.....     | Lowndes.    | McCLAIN, C. A.....    | Marshall.   |
| FOX, J. W.....      | Calhoun.    | McKINNEY, J. H.....   | Marshall.   |
| GILBERT, E. A....   | Kemper.     | McWILLIAMS, J. W..... | Kemper.     |
| GILL, J. J....      | Noxubee.    | MIDDLETON, C. S.....  | Hinds.      |
| GOWEN, W. H.....    | Holmes.     | STINSON, E. B.....    | Lauderdale. |
| HENRY, R. O....     | Oktibbeha.  | STONE, B. W.....      | Carroll.    |

### JUNIOR CLASS.

| NAME.                  | COUNTY.    | NAME.                | COUNTY.       |
|------------------------|------------|----------------------|---------------|
| BRIDGES, C.....        | Webster.   | MENG, J. S.....      | Adams.        |
| DARRINGTON, J.....     | Wilkinson. | POWERS, F. H.....    | Oktibbeha.    |
| DONALD, G. L., JR..... | Clarke.    | RAIFORD, F. T.....   | Panola.       |
| FORT, R. W.....        | Lowndes.   | SHARPE, L. K.....    | Adams.        |
| GARNER, C. B.....      | Lowndes.   | SHEEHY, R. E.....    | Holmes.       |
| JOHNSON, F. P.....     | Holmes.    | STURDIVANT, M. P.... | Tallahatchie. |
| KILGORE, J. B.....     | Lafayette. | WINSTON, W. B.....   | Oktibbeha.    |

### SOPHOMORE CLASS.

| NAME.             | COUNTY.    | NAME.              | COUNTY.    |
|-------------------|------------|--------------------|------------|
| BALDRIDGE, P..... | Itawamba.  | BOYD, J. A.....    | Oktibbeha. |
| BARRY, J. K.....  | Lafayette. | BRIDGES, J. C..... | Oktibbeha. |

| NAME.                 | COUNTY.    | NAME.                | COUNTY.     |
|-----------------------|------------|----------------------|-------------|
| COVINGTON, G. W.....  | Copiah.    | PERKINS, W. R.....   | Oktibbeha.  |
| CRIGLER, W. L.....    | Oktibbeha. | PICKETT, J. D.....   | Lauderdale. |
| EVANS, I. H.....      | Monroe.    | PRICE, J. W.....     | Prentiss.   |
| FALCONER, B. L.....   | Clarke.    | RICHEY, H.....       | Oktibbeha.  |
| FARR, B. C.....       | Holmes.    | SCALBS, E. D.....    | Oktibbeha.  |
| FOX, L. T.....        | Calhoun.   | SCOTT, J. B.....     | Webster.    |
| FOX, W. W.....        | Calhoun.   | SMITH, A. E.....     | Wayne.      |
| GARNETT, R. C.....    | Holmes.    | STRONG, C.....       | Monroe.     |
| GAY, C. E.....        | Oktibbeha. | TROTTER, A. P.....   | Clarke.     |
| HEARON, H. A.....     | Choctaw.   | TURMAN, R. S.....    | Chickasaw.  |
| HEYMAN, S.....        | Attala.    | WALLACE, J. S.....   | Alcorn.     |
| IBBY, D. G.....       | Panola.    | WEST, G. E.....      | Attala.     |
| JOHNSON, W. J.....    | Holmes.    | WILKINSON, D. F..... | Smith.      |
| MONTGOMERY, E.....    | Adams.     | WORD, L. S.....      | Monroe.     |
| OVERSTREET, H. C..... | Kemper.    |                      |             |

## FRESHMAN CLASS.

| NAME.                | COUNTY.     | NAME.                 | COUNTY.     |
|----------------------|-------------|-----------------------|-------------|
| ADAMS, C. R.....     | Yazoo.      | GARNER, J. W.....     | Pike.       |
| ANSLEY, M. E.....    | Hancock.    | GIBSON, R. G.....     | Lowndes.    |
| ARD, G. W.....       | Copiah.     | GILL, E. W.....       | Bolivar.    |
| BARKSDALE, W. C..... | Rankin.     | GILLESPIE, T. L.....  | Oktibbeha.  |
| BARNES, J. T.....    | Pike.       | GREEN, A. E.....      | Jefferson.  |
| BORBOUM, A.....      | Alcorn.     | GUNTER, J. L.....     | Lowndes.    |
| BROWN, E. M.....     | Jefferson.  | HARRIS, W. B.....     | Lowndes.    |
| BROWN, J. F.....     | Lauderdale. | HEGGIE, J. R.....     | Carroll.    |
| BURGESS, H.....      | Oktibbeha.  | HOLMES, W. C.....     | Montgomery. |
| BUSH, L. D.....      | Simpson.    | HOSMER, I. W.....     | Pike.       |
| CAIN, E. M.....      | Pike.       | HOYE, A. L.....       | Newton.     |
| CARROLL, J. S.....   | Oktibbeha.  | JENKINS, J. C.....    | Adams.      |
| CHAPMAN, E. M.....   | Clay.       | JOHNSON, H. M.....    | Holmes.     |
| COLEMAN, D. G.....   | Lafayette.  | JOHNSTON, J. E.....   | Tate.       |
| CONERLY, C. H.....   | Pike.       | KELLY, A. B.....      | Yazoo.      |
| CONNELL, E. P.....   | Oktibbeha.  | KEY, A. E.....        | Kemper.     |
| CORNWELL, G. W.....  | Winston.    | LAMPKIN, E. W.....    | Oktibbeha.  |
| DARBY, H. A.....     | Tate.       | LEDYARD, J. H.....    | Clarke.     |
| DENHAM, J. K.....    | Perry.      | MCCASKILL, J. E.....  | Noxubee.    |
| DICKSON, H. L.....   | Yalobusha.  | MCCLANAHAN, R. C..... | Lowndes.    |
| EGGLESTON, J. S..... | Carroll.    | MCCLENDON, W. L.....  | Oktibbeha.  |
| ELLIS, R. L.....     | Oktibbeha.  | MCCORMICK, J. A.....  | Jasper.     |
| ELY, J. A.....       | Carroll.    | MCEWEN, G. C.....     | Pike.       |
| FLOWERS, E.....      | Pike.       | MEEK, R. B.....       | Lafayette.  |
| GARDNER, S. C.....   | Amite.      | MERCIER, W. B.....    | Copiah.     |
| GARDNER, W. B.....   | Amite.      | MOLLOY, R. C.....     | Lowndes.    |

| NAME.                | COUNTY.     | NAME.                  | COUNTY.     |
|----------------------|-------------|------------------------|-------------|
| MOORE, A. J.....     | Oktibbeha.  | SMITH, D. P.....       | Pike.       |
| MORROW, W. P.....    | Jones.      | SMITH, M. P.....       | Benton.     |
| NUCKOLS, W. A.....   | Noxubee.    | SPARKMAN, J. E.....    | Noxubee.    |
| ODENEAL, E. P.....   | Hinds.      | STENNIS, R. L.....     | Lauderdale. |
| PEARSON, W. E.....   | Kemper.     | STEVENS, R. G.....     | Calhoun.    |
| PICKENS, W. I.....   | Holmes.     | SUDDUTH, C. C.....     | Oktibbeha.  |
| PLEASANTS, J. G..... | Leflore.    | SYKES, W. A.....       | Monroe.     |
| RICHIE, J. A.....    | Oktibbeha.  | THOMPSON, G. R.....    | Jackson.    |
| ROBERT, J. C.....    | Wilkinson.  | Watson, T. F., Jr..... | Oktibbeha.  |
| ROBERT, W. P.....    | Wilkinson.  | WILLIAMS, P. T.....    | Oktibbeha.  |
| ROBINS, E. L.....    | Lee.        | WOOD, J. H.....        | Kemper.     |
| SALMON, W. D.....    | Grenada.    | WORD, S. W.....        | Chickasaw.  |
| SALTER, T. E.....    | Neshoba.    | WYNN, W. T.....        | Yalobusha.  |
| SMITH, G. G.....     | Washington. |                        |             |

## STUDENTS TAKING AN IRREGULAR COURSE IN COLLEGE CLASSES.

| NAME.             | CLASS. | COUNTY.     | NAME.                 | CLASS. | COUNTY.   |
|-------------------|--------|-------------|-----------------------|--------|-----------|
| AMES, A. H.....   | Soph.. | Oktibbeha.  | LOFLIN, D. H....      | Fresh. | Rankin    |
| AMES, C. T.....   | Soph.. | Oktibbeha.  | MAGRUDER, J. C..      | Soph.. | Oktibbe'a |
| ARMSTRONG, W. I.  | Fresh. | Lowndes..   | McKELL, D. F....      | Soph.. | Oktibbe'a |
| AUSTIN, J. V..... | Fresh. | Smith.....  | McKELL, T. W....      | Soph.. | Oktibbe'a |
| BARBER, W. C....  | Fresh. | Jefferson.. | MONTGOMERY, S..       | Soph.. | Adams     |
| BEATTIE, A. N.... | Fresh. | Oktibbeha.  | MOON, H. N.....       | Soph.. | Panola    |
| BONNEY, C. W....  | Soph.. | Monroe...   | PEETS, L. C.....      | Fresh. | Wilkinson |
| BOYDSTON, J. F..  | Soph.. | Lauderd'le  | PEYTON, P. W....      | Fresh. | Hinds     |
| DUGGAR, B. M....  | Soph.. | Alabama..   | PHILLIPS, F. M..      | Soph.. | Holmes    |
| DUQUERCRON, F. H. | Soph.. | Oktibbeha.  | PICKETT, G. C....     | Fresh. | Jackson   |
| DUQUERCRON, L. A. | Soph.. | Oktibbeha.  | PURNELL, M. R..       | Soph.. | Issaquena |
| ELMORE, W. A....  | Fresh. | DeSoto...   | SMITH, W.....         | Soph.. | Wilkinson |
| FARR, B. J.....   | Fresh. | Holmes...   | STARNES, W. D... Jun. |        | Claiborne |
| FORT, L. A.....   | Fresh. | Oktibbeha.  | STENNIS, W. E....     | Fresh. | Lauder'le |
| GILLEYLEN, J. R.. | Fresh. | Monroe...   | THOMAS, C. M....      | Soph.. | Warren    |
| HARDEE, W. N....  | Jun... | Clarke...   | WILKINS, T. J....     | Soph.. | Noxubee   |
| LAKE, W. A.....   | Soph.. | Grenada...  |                       |        |           |

## PREPARATORY DEPARTMENT.

| NAME.              | COUNTY.    | NAME.              | COUNTY.    |
|--------------------|------------|--------------------|------------|
| ABNEY, W. R.....   | Jasper.    | BARRY, J. B.....   | Lafayette. |
| AMES, W. F.....    | Oktibbeha. | BARROW, W. G....   | Carroll.   |
| AMES, W. A.....    | Oktibbeha. | BAYLISS, H. E..... | Jones.     |
| ANDERSON, J. B.... | Yazoo.     | BEEVERS, C. M..... | Bolivar.   |
| ARCHER, J. L.....  | Oktibbeha. | BENSON, T. B.....  | Lawrence.  |
| ASKEW, J. B.....   | Warren.    | BERRY, E.....      | Claiborne. |
| BAAS, C.....       | Copiah.    | BERRY, J. M.....   | Rankin.    |
| BARNES, W. H....   | Rankin.    | BOOKOUT, C. T....  | Sunflower. |

| NAME.                 | COUNTY.     | NAME.                 | COUNTY.    |
|-----------------------|-------------|-----------------------|------------|
| BOYKIN, D. P.....     | Sharkey.    | HULL, W. E.....       | Carroll.   |
| BROOM, C. H.....      | Panola.     | LEE, W. D.....        | Hinds.     |
| BROWN, A. J.....      | Attala.     | LIPSEY, R. M.....     | Holmes.    |
| BROYLES, N. W.....    | Monroe.     | LOCKE, J. R.....      | Lowndes.   |
| BUNTIN, E. N.....     | Oktibbeha.  | LOFLIN, W. E.....     | Rankin.    |
| BURRAGE, R. W.....    | Noxubee.    | LOGAN, E. D.....      | Jefferson. |
| BUTLER, W. O.....     | Oktibbeha.  | MANOR, J. S.....      | Sharkey.   |
| CARPENTER, H. M.....  | Oktibbeha.  | MAXWELL, E. M.....    | Oktibbeha. |
| CASPER, V. A.....     | Hinds.      | MCCALLUM, T. G.....   | Bolivar.   |
| CHANDLER, A. C.....   | Noxubee.    | MCGEE, J. G.....      | Bolivar.   |
| COBB, T. B.....       | Lowndes.    | MCKINNEY, X.....      | Monroe.    |
| COLLIER, J. H.....    | Washington. | MCMILLAN, W. J.....   | Winston.   |
| DAILEY, E. A.....     | Yalobusha.  | MEALS, J. L.....      | DeSoto.    |
| DARDEN, H.....        | Jefferson.  | MONTGOMERY, E. L..... | Madison.   |
| DONALD, B. H.....     | Clarke.     | MONTGOMERY, H.....    | Oktibbeha. |
| DUNLAP, E. H.....     | Panola.     | MORRIS, A. A.....     | Jasper.    |
| EASON, H. T.....      | Marshall.   | MORRIS, J. L.....     | Wilkinson. |
| EDWARDS, M. M.....    | Oktibbeha.  | MCGEE, L. M.....      | Holmes.    |
| FAHNESTOCK, E. M..... | Hancock.    | MULDROW, H. L.....    | Oktibbeha. |
| FARR, D. D.....       | Sharkey.    | MULLINS, G. A.....    | Copiah.    |
| FARRAR, J. H.....     | Bolivar.    | NASH, HARRY E.....    | Oktibbeha. |
| FLOYD, J. F.....      | Wilkinson.  | NASON, W. B.....      | Oktibbeha. |
| FOSTER, C. L.....     | Oktibbeha.  | NESOM, G. E.....      | Jones.     |
| GARDNER, W. M.....    | Pike.       | NEVILLE, G. B.....    | Kemper.    |
| GIBSON, S. S.....     | Copiah.     | NORMENT, J. T.....    | Oktibbeha. |
| GILLESPIE, J. O.....  | Chickasaw.  | NORTON, E. C.....     | Lee.       |
| GLOVER, A. Y.....     | Lowndes.    | O'NEAL, J. S.....     | Sharkey.   |
| GLOVER, J. D.....     | Newton.     | PAGE, J. C.....       | Oktibbeha. |
| GOOD, J. M.....       | Leflore.    | PAYNE, A. G.....      | Lowndes.   |
| GORDON, W. P.....     | Claiborne.  | PEARSON, T. A.....    | Jones.     |
| HARPER, J. H.....     | Hinds.      | PICKETT, B. H.....    | Jackson.   |
| HARPER, J. N.....     | Oktibbeha.  | PIERCE, C. E.....     | Oktibbeha. |
| HARVEY, J. W.....     | Lowndes.    | PIERCE, E. F.....     | Oktibbeha. |
| HARVEY, W. H.....     | Oktibbeha.  | POLLARD, T. J.....    | Holmes.    |
| HATTER, R. N.....     | Noxubee.    | PRINCE, J. J.....     | Noxubee.   |
| HIBBLE, W. J.....     | Oktibbeha.  | RAINES, T. R.....     | Newton.    |
| HICKS, A. G.....      | Yazoo.      | RHYNE, S. H.....      | Holmes.    |
| HIGHT, W. H.....      | Pontotoc.   | RICHEY, E.....        | Oktibbeha. |
| HOLMES, F. F.....     | Yazoo.      | RIFE, E. W.....       | Clay.      |
| HOUSTON, C. Y.....    | Lee.        | ROBERTSON, D. H.....  | De Soto.   |
| HOWARD, L. R.....     | Oktibbeha.  | ROBINSON, H. B.....   | Copiah.    |
| HOYE, C. W.....       | Newton.     | RUDISILL, E.....      | Panola.    |
| HUGHES, T. M.....     | Claiborne.  | RYAN, C. F.....       | Pike.      |



| NAME.                  | COUNTY.    | NAME.                | COUNTY.     |
|------------------------|------------|----------------------|-------------|
| RYAN, E. H.....        | Calhoun.   | THERRELL, A. F.....  | Calhoun.    |
| RYAN, J. T.....        | Calhoun.   | THOMPSON, C. D. .... | Oktibbeha.  |
| SANDERS, W. H.....     | Jones.     | TRACY, E. T.....     | Oktibbeha.  |
| SANDERS, W. J.....     | Attala.    | TYNES, A. M.....     | Lee.        |
| SCHRADER, J. A. C..... | Sharkey.   | VALENTINE, J. A..... | Jones.      |
| SCOTT, J. W.....       | Adams.     | VERNER, P.....       | Lowndes.    |
| SESSUMS, B. K....      | Oktibbeha. | WALKER, E. H.....    | Simpson.    |
| SHACKELFORD, J. M....  | Holmes.    | WATSON, W. W....     | Winston.    |
| SHEARER, W. L.....     | Oktibbeha. | WEED, F. L.....      | Washington. |
| SHEARER, W. V.....     | Oktibbeha. | WHITCOMB, C. E.....  | Adams.      |
| SHUMPERT, D. G.....    | Itawamba.  | WHITWORTH, P. L..... | Bolivar.    |
| SMITH, A. R.....       | Yazoo.     | WILLIAMS, I. F.....  | Oktibbeha.  |
| STANTON, D.....        | Adams.     | WILSON, A. K.....    | Yazoo.      |
| STIGLER, G. H....      | Holmes.    | WILSON, D. S.....    | Holmes.     |
| STUBBS, B. H.....      | Lee.       | WILSON, W. G.....    | Bolivar.    |
| SWEENEY, J. H....      | Holmes.    | WOMACK, W. E.....    | Yalobusha.  |
| SYKES, W. C.....       | Monroe.    | WRIGHT, T. F.....    | Adams.      |

### RECAPITULATION.

|                                                         |     |
|---------------------------------------------------------|-----|
| Post Graduates.....                                     | 5   |
| Seniors.....                                            | 18  |
| Juniors.....                                            | 14  |
| Sophomores.....                                         | 33  |
| Freshmen.....                                           | 79  |
| Number taking an irregular course in College Classes... | 33  |
| Preparatory Department.....                             | 136 |
| Total.....                                              | 318 |



## THE MILITARY ORGANIZATION.

GENERAL S. D. LEE, President, The Head of the Military Department.

SECOND LIEUTENANT HENRY C. DAVIS, 3D U. S. ARTILLERY,  
Commandant of Students.

### FIELD AND STAFF.

J. W. CHANDLER.....MAJOR, COMMANDING THE BATTALION.  
J. W. McWILLIAMS.....CAPTAIN ON SPECIAL DUTY.  
E. B. STINSON.....CAPTAIN ON SPECIAL DUTY.  
M. BROWN.....FIRST LIEUTENANT AND ADJUTANT.  
C. N. ANDERSON.....FIRST LIEUTENANT AND QUARTER-MASTER.

### NON-COMMISSIONED STAFF.

G. L. DONALD.....SERGEANT MAJOR.  
M. P. STURDIVANT.....ORDNANCE SERGEANT.  
W. H. GOWEN.....BAND SERGEANT.

### FIELD MUSIC.

#### BUGLERS.

CORP'L W. A. SYKES,  
PRIV'T W. P. GORDON,  
" J. C. JENKINS,  
" H. L. MULDROW,

#### DRUMMERS.

PRIV'T J. W. SCOTT,  
" A. L. HOYE,  
" W. SMITH,  
" E. M. CAIN.

### COLOR GUARD.

|                        |                        |
|------------------------|------------------------|
| SERG'T. M. R. PURNELL, | CORP'L J. F. BOYDSTUN, |
| CORP'L J. A. BOYD,     | " J. C. BRIDGES,       |
| " S. MONTGOMERY,       | " D. D. SMITH,         |
| " P. BALDRIDGE,        | " J. B. ANDERSON.      |

### MARKERS.

|                |                   |
|----------------|-------------------|
| E. D. SCALES,  | T. F. WATSON, JR. |
| J. G. McGEHEE, | E. T. TRACY.      |

### COMPANY A.

J. W. FOX.....CAPTAIN.  
F. P. JOHNSON.....1ST LIEUTENANT.  
W. N. HARDEE.....2ND LIEUTENANT.  
C. B. GARNER.....1ST SERGEANT.

Aggregate strength of Company, 43.

## COMPANY B.

|                                    |                 |
|------------------------------------|-----------------|
| C. A. McCLAIN.....                 | CAPTAIN.        |
| W. A. FORT.....                    | 1ST LIEUTENANT. |
| R. W. FORT.....                    | 2ND LIEUTENANT. |
| T. J. WILKINS.....                 | 1ST SERGEANT.   |
| Aggregate strength of Company, 48. |                 |

## COMPANY C.

|                                    |                 |
|------------------------------------|-----------------|
| J. T. MANIER.....                  | CAPTAIN.        |
| J. H. McKINNEY.....                | 1ST LIEUTENANT. |
| J. DARRINGTON.....                 | 2ND LIEUTENANT. |
| R. E. SHEEHY.....                  | 1ST SERGEANT.   |
| Aggregate strength of Company, 47. |                 |

## COMPANY D.

|                                    |                 |
|------------------------------------|-----------------|
| B. W. STONE.....                   | CAPTAIN.        |
| J. S. MENG.....                    | 1ST LIEUTENANT. |
| L. K. SHARPE.....                  | 2ND LIEUTENANT. |
| C. BRIDGES.....                    | 1ST SERGEANT.   |
| Aggregate strength of Company, 41. |                 |

## COMPANY E.

|                                    |                 |
|------------------------------------|-----------------|
| B. H. JOINER.....                  | CAPTAIN.        |
| R. O. HENRY.....                   | 1ST LIEUTENANT. |
| F. H. POWERS.....                  | 2ND LIEUTENANT. |
| W. B. WINSTON.....                 | 1ST SERGEANT.   |
| Aggregate strength of Company, 43. |                 |

## MEDALS AWARDED DECEMBER, 1888.

Best Drilled Company—Company C, Captain J. T. Manier.

Best Drilled Student—(First Year) Student D. D. Smith.

Companies A, B, C and D, are formed from students residing in the Dormitory, and Company E from the day students.

By College Regulations, all students are subject to military discipline, and are members of the corps of students, but the military organization is not made the special feature of the College, and always yields to the interests of the Industrial departments.



## COMMENCEMENT EXERCISES FOR 1889.

Commencement Sermon, Sunday, June 16th.

By REV. WILLIAM HAYNE LEAVELL, MERIDIAN, MISS.

MONDAY, JUNE 17TH.

|                                  |      |       |
|----------------------------------|------|-------|
| SOPHOMORE ADDRESS.....           | 11   | A. M. |
| DRESS PARADE OR SHAM BATTLE..... | 4    | P. M. |
| JUNIOR ADDRESSES.....            | 8:30 | P. M. |

TUESDAY, JUNE 18TH.

SENIOR DAY.

|                       |      |       |
|-----------------------|------|-------|
| SENIOR ADDRESSES..... | 11   | A. M. |
| CLASS EXERCISES.....  | 8:30 | P. M. |

WEDNESDAY, JUNE 19TH.

ANNUAL ADDRESS

BY

**COL. L. L. POLK, of Raleigh, N. C.,**

11 A. M.

DELIVERY OF DIPLOMAS TO THE GRADUATING CLASS,

BY THE PRESIDENT.

On Tuesday and Wednesday an Agricultural and Horticultural Exhibition will be held at the College. The buildings and grounds of the College and of the Experiment Station will be open to inspection, and the public is invited to assist us at that time to see the actual field work in progress. A stock and implement exhibit will be held at the College barn, under the superintendency of the Professor of Agriculture, who will arrange for the proper care and feeding of such stock as may be brought from abroad for exhibition. Breeders and intending purchasers of fine stock will find this an excellent opportunity for an exhibition and sale.

### STATE HORTICULTURAL SOCIETY MEETING.

The Mississippi State Horticultural Society has arranged to hold its Summer Exhibition at the College at this time. A liberal premium list and ample accommodations have been provided, and it is the expectation of the Society to make this the largest fruit and vegetable exhibit ever made in the State. Fruit and vegetable growers, implement manufacturers, and others interested in Horticulture, are invited to take part in the exhibition. Premium lists and other information may be had by addressing Prof. A. B. Mc Kay, Chairman of Committee of Arrangements.



# ANNOUNCEMENT.

## CONDITIONS OF ADMISSION.

### STATE REQUIREMENTS.

By the Apportionment Law, enacted at the last session of the Legislature, only three hundred students are entitled to free tuition at this College. These are apportioned to the various counties in the State on the basis of the number of white educable males in each county. For reference, the Apportionment Law, with a table showing the number of free tuition students to which each county is entitled, is appended to these conditions of admission.

For the manner in which the appointments from each county are made, see Sec. 2 of the Law.

It is earnestly desired that every county shall send its full quota, in order that every part of the State may reap the benefits of the College. But, in case vacancies occur from any county, or number of counties, by Sec. 3, of the Law, counties having their full quota in attendance may send other applicants; provided, that this does not exclude any one having the right to free tuition, and that all students from any county, in excess of the number to which it is entitled, be required to pay a tuition fee, ranging from three to five dollars per month, the exact amount left to the decision of the Board of Trustees. Three dollars (\$3) per month, the minimum fee required by law, has been made the rate of tuition for all such students, in order that young men of even slender means may gain the advantages of a practical education at this College, if they so desire.

Suitable provision will be made for the accomodation and instruction of all qualified to enter the College who may apply, whether they come by appointment under the law or as tuition students. Those who pay tuition will be assigned to the rooms in the dormitory not occupied by apportionment students. All who cannot thus be provided for can secure board, at reasonable rates, in the vicinity of the College or in Starkville, one mile and a fourth distant; but none will be permitted to board outside until the dormitory has been filled to its utmost capacity.

### OTHER REQUIREMENTS.

Applicants must be in good health and not less than fifteen (15) years

of age. Should, however, two brothers, one above and the other a little under the specified age, apply, exception will be made in the case of the latter, if he is well qualified in other respects. Those who have been students at other colleges must bring with them testimonials of honorable discharge.

Applicants for admission into the Preparatory Department must be able to read ordinary prose readily and intelligently, spell words of common use and make and explain the construction of simple English sentences. They must also be well acquainted with the principles and operations of Arithmetic through Common and Decimal Fractions.

Applicants for the Freshman Class will be required to pass a good examination on English Grammar, Arithmetic, Geography, and United States History.

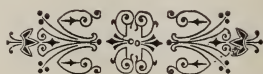
Applicants will be admitted into any class in the College, at any time, if they can pass a satisfactory examination on all the preceding studies of the course.

Those who desire to devote their attention to the study of special subjects bearing on agriculture or the mechanic arts may take a select course; provided, they pass an examination which would admit them into the Freshman Class, and, in addition, shall pass such examinations as the professors in charge of the departments selected shall prescribe.

Should students desire to take a select course on account of failure in any examination in the regular course, they will be permitted to do so; but in no instance can they take a study in advance of their proper class, till they have made up the deficient study.

County Superintendents are urged to be as careful as possible in their examinations, in order that all who receive appointments through them shall be qualified to enter at least the Preparatory Department.

They are also earnestly requested to do all they can to secure from their respective counties a full representation at this College; for vacancies from one county cannot be filled by applicants from another, unless the latter pay tuition. The experience of the College is, that even where the names of students are sent in by County Superintendents, at least  $33\frac{1}{3}$  per cent. of them are not present at the opening of the College and do not come later.



## APPORTIONMENT LAW.

*AN ACT to apportion the students at the A. & M. College and Industria Institute and College to the several counties of this State, and for other purposes.*

SECTION 1. *Be it enacted by the Legislature of the State of Mississippi,* That immediately after the close of the present term, or scholastic year, the number of students allowed free tuition at the A. & M. College and the I. I. & C. College, shall be limited to three hundred each, and the boards of trustees of these institutions of learning are hereby required to apportion the number allowed said colleges to the several counties in this State on the basis of the white educable children, male and female respectively.

SEC. 2. *Be it further enacted,* That it shall be the duty of the respective presidents of the colleges, when said apportionments are made, to notify the superintendents of public education of each and every county in this State of the number of students to which his county is entitled under said apportionment, and said superintendent shall give thirty days notice by advertising in some newspaper in his county, and if there is no newspaper, by posting notices in each supervisor's district in his county, of the time and place, not to be later than the 1st Monday in September in each year, when he will examine all applicants for appointment to the colleges. He shall, after due examination, grade the certificates of scholarship of each applicant and submit the same to the board of supervisors of his county, and said board shall appoint from all applicants, if there be more than the number apportioned to the county, the number to which the county is entitled, and the clerk of the board shall forthwith certify said appointments with the names of the applicants to the president of the college to which the students are assigned, under the seal of the board of supervisors.

SEC. 3. *Be it further enacted,* That the president of the colleges be authorized to receive from counties having their full quota of free students as many applicants for admission to the college as he may deem proper; *provided,* such action does not exclude students, or interfere with their instruction from counties having a right to free tuition under this act; but all students in excess of the number apportioned to the several counties shall pay such reasonable rate of tuition as the board of trustees, respectively, may prescribe, not to be less than three nor more than five dollars per month, which money shall go to the college treasury, to be expended in its support, and the presidents of the colleges in their biennial reports shall show the amounts of money received from this source, and the manner of its disbursement.

SEC. 4. *Be it further enacted,* That when the number of free scholaships shall from any cause be reduced below the maximum number apportioned by this act, the president of the college shall forthwith notify the superintendent of public education of such vacancy from his county, and said superintendent shall proceed to fill said vacancy as prescribed in section 2 of this act.

SEC. 5. *Be it further enacted,* That this act take effect and be in force from and after the 1st day of October, 1888.

Approved March 5, 1888.

### APPORTIONMENT TO COUNTIES UNDER THE NEW APPORTIONMENT LAW.

| <i>County.</i>  | <i>No. Entitled.</i> | <i>County.</i>    | <i>No. Entitled.</i> |
|-----------------|----------------------|-------------------|----------------------|
| Adams.....      | 4                    | Lincoln.....      | 5                    |
| Alcorn.....     | 6                    | Lowndes.....      | 6                    |
| Amite.....      | 3                    | Madison.....      | 4                    |
| Attala.....     | 7                    | Marion.....       | 2                    |
| Benton.....     | 3                    | Marshall.....     | 7                    |
| Bolivar.....    | 2                    | Montgomery.....   | 4                    |
| Calhoun.....    | 9                    | Monroe.....       | 7                    |
| Carroll.....    | 5                    | Neshoba.....      | 4                    |
| Chickasaw.....  | 6                    | Newton.....       | 5                    |
| Choctaw.....    | 5                    | Noxubee.....      | 3                    |
| Claiborne.....  | 2                    | Oktibbeha.....    | 3                    |
| Clarke.....     | 4                    | Panola.....       | 7                    |
| Clay.....       | 3                    | Perry.....        | 1                    |
| Coahoma.....    | 1                    | Pike.....         | 5                    |
| Copiah.....     | 9                    | Pontotoc.....     | 5                    |
| Covington.....  | 1                    | Prentiss.....     | 6                    |
| DeSoto.....     | 4                    | Quitman.....      | 1                    |
| Franklin.....   | 3                    | Rankin.....       | 4                    |
| Greene.....     | 1                    | Scott.....        | 4                    |
| Grenada.....    | 3                    | Sharkey.....      | 1                    |
| Hancock.....    | 3                    | Simpson.....      | 3                    |
| Harrison.....   | 4                    | Smith.....        | 5                    |
| Hinds.....      | 6                    | Sunflower.....    | 1                    |
| Holmes.....     | 5                    | Tallahatchie..... | 3                    |
| Issaquena.....  | 1                    | Tate.....         | 5                    |
| Itawamba.....   | 5                    | Tippah.....       | 6                    |
| Jackson.....    | 4                    | Tishomingo.....   | 5                    |
| Jasper.....     | 4                    | Tunica.....       | 1                    |
| Jefferson.....  | 2                    | Union.....        | 7                    |
| Jones.....      | 5                    | Warren.....       | 4                    |
| Kemper.....     | 5                    | Washington.....   | 2                    |
| Lafayette.....  | 6                    | Wayne.....        | 2                    |
| Lauderdale..... | 7                    | Wilkinson.....    | 3                    |
| Lawrence.....   | 3                    | Webster.....      | 4                    |
| Leake.....      | 5                    | Winston.....      | 3                    |
| Lee.....        | 7                    | Yalobusha.....    | 3                    |
| Leflore.....    | 1                    | Yazoo.....        | 5                    |

## SPECIMEN EXAMINATIONS

FOR ENTRANCE INTO THE PREPARATORY DEPARTMENT.

1st. Reading from some standard work.

2d. Spelling upon the blackboard such words as these: sincere, separate, ceiling, freight, dairy, imitate, business, necessary, transferred, decimal, receive, believe, etc.

3d. Grammar.

Define a sentence. Name the principal parts of every sentence. Name all the parts of speech, and give an example of each.

Write a sentence containing an adjective and an adverb. Analyze it, and parse all the words in it. Decline the pronoun I.

Give two rules for the use of the period; three rules for the use of capital letters.

4th. Arithmetic.

Oral Exercises—Count by 9's from 3 to 66; also by 7's from 51 back to 2.

If a man earn \$65 a month and spend \$47, how much will he save in five months?

Add 2-5 and 3-8. Subtract 2-3 from 8-9.

Written Exercises—Multiply 3-4 by 4 in 2 ways. Divide 6-7 by 3 in two ways. Add 1 3-4, 3 2-7, and 1-2 of 9.

From 2-3 of 9-10 take 1-12 of 2.

If 6-7 of a bushel of apples cost 3-5 of a dollar, what will the whole bushel cost?

Add fifteen and fifteen millionths, five hundred and eighty-five thousandths, twenty-five thousandths, and one and one-tenth.

Multiply twenty-five thousand by twenty-five thousandths.

Divide forty-two thousandths by six hundredths.

Reduce  $\frac{7}{8}$  to a decimal fraction. Reduce 625 to a common fraction.

These questions, of course, serve merely as an indication of what the applicant is required to know before he can enter the Preparatory Department, and apply to those only who enter at the beginning of the session. Those who arrive after the opening of the session, will not only be given such an examination as the above, but will also be examined on the various



studies of the Preparatory class as far as that class may then have progressed in those studies. For instance, applicants for admission on or about the first of January, will, in addition to the examination required at the first of the session, be examined on the studies which the Preparatory students passed over from October to January; namely, Arithmetic, to Percentage; English Grammar, through Conjugation of the Verb; Geography to the Map of Europe.

Those who enter as late as the 1st of March will be examined as follows: in Arithmetic, to Square Root; in English Grammar, to the Analysis of Complex Sentences; in Geography, to the Map of Africa.



## SPECIMEN EXAMINATIONS

### FOR ENTRANCE INTO THE FRESHMAN CLASS.

#### ENGLISH GRAMMAR.

- I. Define English Grammar. Name its general divisions and define each.
- II. Name the parts of speech and give an example of each.
- III. How are pronouns divided? Name some pronouns belonging to each class.
- IV. Decline these words: fox, I, it and who.
- V. Compare evil, little, ample, industrious, well, happy, wisely, and badly.
- VI. Show both by definition and illustration, the difference between an adjective and an adverb.
- VII. Name and illustrate the different kinds of verbs. Give a synopsis of the verb know in the active voice.
- VIII. Give the principal parts of the verbs be, lie, lay, fly, flee, sit, set, seek, and choose.
- IX. Classify sentences with respect both to form and meaning, and illustrate each class.
- X. Write a complex sentence containing an adjective clause, or proposition; another containing an adverbial clause, or proposition.

#### UNITED STATES HISTORY.

- I. Mention and define the Periods of United States History.
- II. Give a brief outline of each period.
- III. Mention and define the different forms of colonial government.
- IV. What were the causes of the secession of the colonies?
- V. Mention the most important battles of the Revolution.
- VI. What State was once an independent republic?
- VII. Give the principal events of Madison's administration.
- VIII. Give the principal events of Polk's administration.
- IX. Give the causes that led to the War of Secession.
- X. Give the principal battles which were fought during this war.

## GEOGRAPHY.

- I. Name the grand divisions of the globe, and the waters that border them.
- II. Name the principal mountains, plateaus, rivers, and lakes of each grand division.
- III. Name the countries of Europe and give their capitals.
- IV. Name the most important commercial cities of the world, and give the approximate population of each.
- V. What are the staple products of each nation of South America?

## MATHEMATICS.

$$\text{I. } \left( \frac{2\frac{2}{3} + 3\frac{1}{5}}{5\frac{1}{3} - 2\frac{1}{4}} \right) \div \left( \frac{6 \text{ of } \frac{2}{3} \text{ of } 3\frac{1}{7}}{\frac{5}{8} \div 2\frac{1}{6}} \right) = (?)$$

$$\text{II. } \left( \frac{.00516 + .700814}{6.516 - 3.20004} \right) \left( \frac{.1}{.0001} \right) = (?)$$

III. If 5 men in 6 days, working 7 hours a day, can build a wall 80 feet long, 5 feet high and 3 feet thick, how many days will it take 7 men working 10 hours a day to build a wall 90 feet long, 3 feet high and 2 feet thick?

IV. Find the interest (simple) on \$818.18, @  $7\frac{1}{2}$  per cent. per annum, for five years, 5 months and 5 days.

$$\text{V. } \sqrt[3]{33333333} = (?)$$

Applicants for admission during session will, in addition to above, be examined in so much of Algebra as the class has passed over up to time of application. To enter about January 1st the applicant must be thoroughly prepared on the following:—

Fundamental operations of Algebra; greatest common divisor and least common multiple; fractions; equations of first degree; formation of powers and extraction of roots. Text-book, Peck's Manual of Algebra.

## EXPENSES.

A matriculation fee of five dollars entitles the apportionment students to the privileges of the entire course.

The surgeon's fee, which includes attention and medicine, is \$5.00 for each student, and must be paid at the beginning of each session, or when he enters.

Tuition is free to all who are admitted into the College under the Apportionment Law. All others will be charged a tuition fee of three (\$3.00) dollars per month, payment to the end of the current term due in advance.

The College furnishes a room free of rent in the dormitory, giving preference to those appointed. Students must supply themselves with all neces-

sary furniture, such as bedstead, bedding, table, wash-stand, etc., which, when two boys are together, costs about \$6 each.

Students pay for chemicals used and apparatus broken. This will probably not exceed \$5 per session.

All students are required, by a resolution of the Board of Trustees, to wear the prescribed uniform, within five miles of the College building. The suit, consisting of cap, coat, pants, cost during the past year, \$16.85. The material is cadet gray.

Board is furnished at actual cost. The expenses at the end of each month are made up by the Steward, and divided among the students in the dormitory. This expense includes cost of keeping up the dining hall, sweeping and lighting the halls of the dormitory, kerosene for lamps of students in their rooms, replacing broken crockery, etc., necessary to keep the boarding department in efficient working order. The average expense per month, for the present year, has been \$8.70. Washing can be had at about 40 cents per dozen.

To assist in meeting expenses students are required to labor from two to three hours each day, three to five days in the week, limited by money appropriated for this purpose. This is compulsory to the extent that each student must perform a prescribed amount of labor. With ordinary weather this will enable the student to earn about \$25 a year. Some students have earned as much as \$50.

Students can also labor on Saturday, and very frequently they can work longer than three hours daily during the week. Those who do this earn much more, and it goes far toward meeting their expenses.

For labor faithfully performed, they are paid eight cents per hour.

Quite a number of students have, by their labor on the farm, brought their total expenses down to an average of one hundred dollars for the session. This includes board, fuel, washing, clothing, and traveling expenses.

The year is divided into three terms. Each student at the beginning of each term must deposit \$20 to meet his board bill for that term. He must have at least enough at the end of each month to pay his board for the ensuing month. All money deposited is allowed in settlement of accounts at the end of the term, or at any time. There must be a settlement at the end of each month; students who cannot pay must leave the College. No honorable discharge will be given to any student till he pays all his dues.

Students are required to pay to the Secretary at the beginning of the first term:

|                        |         |
|------------------------|---------|
| Matriculation fee..... | \$ 5 00 |
| Medical fee.....       | 5 00    |
| For uniform.....       | 16 85   |
| Advance on board.....  | 20 00   |

In addition to which, they must have the means to furnish their rooms, and purchase books. At the beginning of the second and third terms, students must pay to the Secretary \$20 advance on board. The College authorities assume no responsibility in regard to the expenditure of money by students, unless deposited with the Secretary.

#### DISCIPLINE.

The PRESIDENT, by College Regulations, is responsible for the government and management of the College, and supervises and controls all the departments, collegiate and otherwise.

The COMMANDANT has immediate command of the corps of students, and is responsible for the military organization. On his recommendation, are appointed by the President, the officers and non-commissioned officers of the corps. All permits for privileges, all excuses and explanations for delinquencies must be submitted through him. It is his duty to report to the President, for his action, all violations of College regulations, and in every way assist the President and Faculty in their efforts to enforce discipline, and he sees that the punishments given by them are served.

To enforce discipline and preserve orderly conduct, reports are made by the student officers and non-commissioned officers, and demerits given by the President for those reports not removed on explanation submitted to the Commandant. Students have the right of appeal in writing through the Commandant, to the President, when they think that injustice has been done them.

The scale of demerits is from 1 to 5, according to the degree of the offense.

The grades of punishment are :

I. Reprimand, demerits, privation of recreation, and walking extras.

II. Arrest, confinement to room, or college limits, and reduction to ranks of officers and non-commissioned officers.

III. Suspension, dismissal with privilege of resigning, and public dismissal.

IV. Expulsion.

Only the President and Faculty can award punishments. Those of 1st and 2d grades are given by the President, and those of 3d and 4th grades by the Faculty.

In order to maintain discipline, do justice to all, clearly discriminate between the faithful and unfaithful, and render a correct report of conduct, class-standing, etc., at the end of each month the attention of patrons of the College is respectfully directed to the following regulations governing absences, and their co-operation is earnestly requested :

I. After regularly matriculating, no student, except on recommendation of the surgeon, will be allowed to go home or elsewhere, except at such time as the Faculty may designate, unless the parent or guardian explicitly direct the President to grant the privilege.



II. All applications for leave to go home or elsewhere, must be for a specific time.

III. Any student who is on leave of absence and cannot return at the expiration of the time granted, must notify the President, give reasons therefor, and ask for extension of leave—designating the date on which he hopes to return; otherwise his name may be dropped from the rolls and some one else taken to fill the vacancy.

IV. Students who are absent on account of sickness are requested to report before the end of each month their state of health and probability of returning that session.

V. Any student absent four consecutive weeks shall not be allowed to continue with his section upon return, except by special permission of the Faculty. Patrons are earnestly requested not to permit their sons to remain away from the College, at any time during the session, one moment longer than is absolutely necessary; as it is a very great detriment to the student himself, in a measure detrimental to his class, and very discouraging to the instructor to have students lose the benefits of even one lecture, or the explanations of a single recitation.

The discipline has for its chief aim and object to secure, with as little severity as possible, prompt and cheerful obedience to, and respectful, quiet demeanor towards the College authorities, orderly conduct in the section rooms, dormitory, mess-hall, chapel, and in the fields.

The military feature is the most effective means of enforcing and securing discipline. The company and battalion organizations give to the officers and non-commissioned officers acquaintance with the proper exercise of authority, and the students acquire habits of obedience.

This feature is made to conduce to the furtherance of the principal aim and object of the College—its industrial feature.

#### SCHOLARSHIP AND ATTENDANCE.

Students are carefully graded in their different studies. The maximum is 100; each student must average sixty or he is pronounced deficient.

As each study is completed, an examination is held in that study. The sum of the examination mark and the average of the daily marks in each study divided by two constitutes the final mark or grade. Should this fall below 60, the student is pronounced deficient. Students failing will be allowed a reasonable time for a new examination. Those failing in two studies at any time will not be permitted to go on with their class. As the instruction is given largely by lectures and work in the laboratory and field, it is very important for students to remain during the entire session.



# COURSE OF STUDY.

1889-90.

## PREPARATORY DEPARTMENT.

English Grammar and Composition, Penmanship, Declamation, Arithmetic, Elements of Book-keeping, Algebra to Equations of the First Degree, Geography, United States History, and Agriculture.

Text-books—Patterson's Elements of Grammar and Composition, Thomson's Complete Arithmetic, Palmer's Elements of Book-keeping, Maury's Manual of Geography, Barnes' Brief U. S. History, Peck's Manual of Algebra, Gulley's First Lessons in Agriculture, supplemented by lectures.

## COLLEGIATE DEPARTMENT.

### FRESHMAN.

FIRST TERM.—Drawing, Algebra, English, Natural Philosophy.

SECOND TERM.—Algebra, English, Agriculture, Horticulture.

THIRD TERM.—Etymology, Algebra and Geometry, Book-keeping, English, History.

Declamations and Compositions through the entire session.

### SOPHOMORE.

FIRST TERM.—Chemistry, Drawing, Geometry, Rhetoric.

SECOND TERM.—Rhetoric, Geometry, Chemistry, Anatomy and Physiology, Preparation of addresses on scientific and industrial subjects.

THIRD TERM.—Surveying, Agriculture, Entomology, Chemistry. Delivery of addresses contesting for places at Commencement.

### JUNIOR.

FIRST TERM.—Mechanics, Geology, Horticulture, English Literature.

Preparation and delivery of addresses on scientific and industrial subjects.

SECOND TERM.—Mechanics, Chemistry, Veterinary Science, General Literature. Preparation and delivery of addresses on scientific and industrial subjects.

THIRD TERM.—General History, Military Science and Tactics, Chemistry, Botany.

Delivery of addresses contesting for places at Commencement.

Afternoon work in Chemical Laboratory, and with Steam Engine, ten hours per week, November 15, to February 15.

### SENIOR.

**FIRST TERM**—Political Economy, Zoology, Drawing, Chemistry.

Preparation and delivery of addresses on scientific and industrial subjects.

**SECOND TERM**—Botany, Civil Engineering, Criticism, Chemistry.

Preparation and delivery of addresses on scientific and industrial subjects.

**THIRD TERM**—Agriculture, Chemistry, Astronomy, Moral Law, Constitutional Law.

Delivery of addresses contesting for places at Commencement.

Afternoon work in Biological Laboratory, ten hours per week, November 15, to February 15, and laboratory or special work, (the department in which the work is done to be left as far as possible to the choice of the students), eight hours per week, February 16, to June 1. It is understood that all laboratory or special work is strictly educational, and will not be regarded as labor for which students will receive compensation.

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### POST-GRADUATE COURSE.

**BIOLOGY**—Mycology, Fertilization and Cross Fertilization, Relation of Insects and Plants, Histology, Zoology, including Embryology, with monthly written discussions, under direction of Professor of Biology.

**AGRICULTURE**—Principles of stock-breeding and feeding, theory of Drainage, Cultivation, curing and marketing crops, improvement of soil and manure supply. The student will be required to take charge of field and feeding experiments, dairy and general farm work under direction of the Professor of Agriculture.

**HORTICULTURE**—Pomology, Floriculture, Landscape Gardening, Forestry, Geographic Botany, Economic Botany, management of Green Houses, under the direction of Professor of Horticulture.

**CHEMISTRY**—Chemistry applied in the analysis of soils, plants, foods, animal tissues and products, feeding, water and other drinks, under the direction of the Professor of Chemistry.

**ENGLISH**—A course of reading in English prose and poetry, embracing entire works, logic, and mental science, with monthly written essays, under the direction of the Professor of English.

**MATHEMATICS**—Analytical Geometry, Differential and Integral Calculus, Applied Mechanics, and Civil Engineering.

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### DEGREES.

The Degree of Bachelor of Science is conferred upon students who complete the College curriculum by passing all the required examinations.

The degree of Master of Science will be conferred on any student who has taken the Bachelor's Degree in this College or in any other College with equivalent courses, and who pursues and completes the Post-Graduate course herein prescribed.

Every candidate for the Master's degree will be required to take the course in English, under the direction of the Professor of English, and any one of the scientific courses he may select. The amount of work to be performed must be equivalent to two year's work in the undergraduate course and will be determined by the Faculty; and the degree will be conferred only after the candidate shall have passed an approved examination, and shall have written a thesis on some subject connected with his industrial or scientific course which shall be accepted by the Faculty.

While these post graduate courses are open to the graduates of other Colleges, such students will be required to pay the usual matriculation fee; and, in case Chemistry or Biology is selected, every student will be charged for the chemicals and materials used.

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### DEPARTMENT OF AGRICULTURE.

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#### B. IRBY, PROFESSOR AND SUPERINTENDENT OF FARM.

Instruction in Agriculture is given by lectures, divided into three courses, occupying the entire College year.

**SENIOR CLASS**—First term. Farm economy, principles of stock-feeding, nutritive ration, value of different foods and manures, preparation and application of manures and fertilizers, composting, green manuring, adaptation of soils to crops, special crops, rotation of crops, cultivation, planning and erecting farm buildings.

**FRESHMAN CLASS**—Second Term. History, characteristics, breeding, and care of the breeds of domestic animals; butter-making.

**SOPHOMORE CLASS**—Third Term. Principles of drainage, effects of an excess of soil-water on cultivation, surface and sub-soil drains, contamination of wells and cisterns, laying tiles and sewers, hill-side ditching, controlling streams, preventing soils from washing, use and care of farm implements and machinery, with field practice.

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Instruction in the Department of Agriculture embraces not only the lectures of the class-room, but the knowledge gained by the student in the regular work of the field, and in an intimate association, during his whole course, with a large and well-equipped farm.

The department is under the immediate supervision of the Professor of Agriculture; which fact affords opportunities to illustrate in actual practice the theories taught in the class-room.

The compulsory student-labor system is made a prominent feature, and is considered educational, not only in teaching the student how to do certain things, but also in making him familiar with the various industrial operations of the institution and interested in them.

The College owns 1802 acres of land, divided into cultivated fields, pastures, orchards, ornamental grounds, etc.

A considerable portion of the farm is cultivated with special reference to providing for the student labor that will be instructive. The larger part of the farm is devoted to the production of commercial products, and the general crops of a diversified system of husbandry, including stock-growing and dairying. In somewhat similar Colleges, even where student labor is required, it is deemed sufficient to furnish just enough labor to employ the students during a limited part of the course, having simply specimen farms, herds, etc. The college provides for the students not merely experiment work, but a business farm. Instead of specimen crops on a small scale, that the students can only see, he helps to cultivate crops that vary in extent from ten to one hundred and fifty or more acres.

To illustrate the varieties of breeds, a herd is provided, enabling the student to become familiar with the work of caring for several hundred animals, as well as to study the peculiarities of the various breeds.

Opportunity is given the students to compare the "theory" of Agriculture with the "practice;" he soon becomes an interested critic, and is enabled to judge with considerable accuracy, as to the value of the principle taught in relation to the art.

At the close of the course in Agriculture, questions pertaining to the details of the entire work of the farm constitute a part of the regular examinations.

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### DAIRY HUSBANDRY.

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A special course in Dairy Husbandry is provided, covering the theory of breeding dairy stock, feeding for milk and of making and shipping milk, cream, butter and cheese, and the practical method of working in different sections of the country. Facilities are provided for practical work in the College Creamery for young men, regular students and others, who desire to fit themselves for taking charge of creameries in the State.



### MEANS OF ILLUSTRATION--FARM DEPARTMENT.

Eighteen hundred and two acres of land, of which six hundred acres are under cultivation, including garden and grounds, barns, stables, pigpens, and other buildings, built on approved plan with modern conveniences, with capacity for 400 head of cattle and 14 mules; 400 head of pure-bred, grade and native cattle, including Holstein, Jerseys, Hereford's, Devons and Galloways; a full and complete outfit of farm machinery and implements, including steam-engine, cane mill, evaporator, thresher, feed mill, fanning mill, sheller, ensilage cutter, Kemp's manure spreader, Pennock's road and ditching machine, reapers, mowers, roller grain drills, corn and cotton planters, and a variety of plows, harrows and cultivators for one, two and three-mule teams, from the principal manufacturers of the country; the growing of all crops adapted to this latitude, ensilaging green crops, working up sugar-cane and sorghum experiments in stock feeding and growing crops.

A working Creamery with full outfit of the best machinery, including the de Lavel cream separator. Butter is made and forwarded to market daily during the year.

The Library contains works of reference on all branches of agriculture and allied sciences, and the reading room is supplied with all the best agricultural papers and periodicals published in the country,

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### DEPARTMENT OF HORTICULTURE.

A. B. MCKAY, PROFESSOR AND SUPERINTENDENT OF GARDEN, ORCHARDS AND GROUNDS.

**FRESHMAN CLASS—*Second Term***—Instruction in class-room is given on the following topics: Location and preparation of garden and orchard lands. Manures—their preparation and application to different plants; Drainage; Construction and management of hot-beds, cold-frames and propagating houses. When and how to plant trees, seeds, vines, etc. Budding and grafting. The common insects injurious to garden and orchard products, and how to destroy them.

**JUNIOR CLASS—*First Term***—The following are among the subjects discussed: Garden, orchard and nursery economy; Varieties best adapted to different soils and latitudes; the pruning and training of trees and vines; The best method of gathering, packing and shipping horticultural products to distant markets; Of preserving and keeping vegetables and fruits and of saving seeds; Designs and management of ornamental grounds. While at work in the garden, orchard and vineyard the student becomes familiar with the growth and habits of the different plants, trees and vines cultivated. He learns by actual practice the art of propagating from seeds, layers, cuttings, budding and grafting. With his own hands he prunes the

orchard and vineyard, plants, cultivates and harvests the different garden and orchard products; thus acquiring skill and such knowledge of the business as can be obtained in no other way.

POST-GRADUATE COURSE—Pomology, Floriculture, Landscape Gardening, Forestry, Geography, Botany, Economic Botany, management of green houses.

#### MEANS OF ILLUSTRATION.

Orchard, vineyard, garden and grounds; strawberry and raspberry beds; green-house, cold-frames and hot-beds. Books and periodicals in College library.

### DEPARTMENT OF BIOLOGY AND GEOLOGY.

D. L. PHARES, PROFESSOR.

G. C. CREELMAN, LECTURER.

#### SOPHOMORE CLASS.

SECOND TERM—ANATOMY AND PHYSIOLOGY are taught by lectures, illustrated by skeletons, mounted and unmounted; models, manikin, fine life-size drawings colored from nature; alcoholic preparations and dissections, showing the comparative structures of the organs of sense, digestion, circulation, respiration, locomotion, etc., their situation, their appearance in health and disease, their interdependence and their relation to hygiene.

THIRD TERM—Economic entomology text-book, supplemented by lectures.

#### JUNIOR CLASS.

FIRST TERM—GEOLOGY is taught in its relations to lithology, mineralogy; soils and its agricultural, architectural and other economic applications.

SECOND TERM—This term is occupied by lectures on breeds, breeding, and management of sound and sick animals with examinations of them by the class.

THIRD TERM—BOTANY, structural, physiological, descriptive and economic, is taught practically; the class making dissections under the microscope and analyzing from 70 to 100 fresh plants.

#### SENIOR CLASS.

FIRST TERM—To ZOOLOGY, in its various phases of development from the microbe to man, one hour is given daily.

In these studies students have the use of skeletons, plates, thousands of specimens, twelve high power compound microscopes of modern construction and recent improved accessories.

SECOND TERM—The study in BOTANY is resumed with special reference to development, tissues, morphology and microscopic organisms in their relations to health and diseases. Moral Science is also taught with book and lectures.

## DEPARTMENT OF CHEMISTRY.

W. L. HUTCHINSON, PROFESSOR.

Instruction in this department is given by means of lectures illustrated by experiments, recitations in text-books and practical work in the laboratory. The course of study embraces General Chemistry, Agricultural Chemistry and Industrial Chemistry.

The Sophomore Class study General Chemistry the entire session (five hours per week). This study embraces the principles of chemistry, the history, preparation and properties of the elementary forms of matter, the manufacture and uses of their most important compounds, and the more essential principles of Organic Chemistry. Practical work in the laboratory is given in order to a more thorough understanding of chemical reactions and facility in the manipulation of apparatus.

*Text-Books*—Rascoe and Schorlemmer, Jones.

The Junior Class study Agricultural Chemistry the last six months of the session (five hours per week). This embraces a study of the origin and constitution of soils, the composition, growth and feeding of plants, the manufacture and application of fertilizers and manures, the feeding of stock, etc. Qualitative and quantitative analysis constitute the practical laboratory work of this class.

*Text-Books*—Storer's Agriculture, Church's Laboratory Guide.

The Senior Class study Industrial Chemistry the entire session (five hours per week). This embraces a study of the occurrence of ores and minerals, the extraction of metals, their properties and uses; the preparation of articles used for food and drink, for clothing, heating, adorning, etc.; the chemistry of combustion and the principle of multiple effect evaporation.

*Text-Books*—Wagner's Technology, Mott's Chemist's Manual.

Hereafter a fee of \$5.00 per year will be charged students in the analytical laboratory to cover expense of chemicals, gas, etc., used in experiments and work.

Each analytical student is furnished with a desk and a complete set of apparatus for performing experiments and making analyses. Any apparatus broken is charged to the student.

The Freshman Class is given a three months course in Natural Philosophy.

*Text-Book*—Cooley's New Natural Philosophy.

**DEPARTMENT OF ENGLISH.**

W. H. MAGRUDER, PROFESSOR.

The primary object of this department is to give the student a practical knowledge of English, and with it, the liberal culture that necessarily follows a thorough study of language.

To this end it proposes—

1. To give (*a*) a critical knowledge of our vernacular in its grammatical and idiomatic constructions; to give (*b*) a general knowledge of its etymological history and the history of its relations to other languages; and to give (*c*) such a knowledge of the history of its literature as can be acquired in the short time allowed for its study.
2. To present an outline of the history of general literature; and to teach the elements of criticism, and their practical application.
3. To give an accurate knowledge of English history, and a general knowledge of the history of the world.

To accomplish the purpose stated above, the following course of study has been adopted:

**FRESHMAN CLASS.**

In the Freshman year, the English sentence is carefully studied for two terms in its simple, complex, and compound forms; in its punctuation, its analysis, its style, and its relation to the other sentences of the paragraph.

During the third term, the history of the English people is studied topically. By means of maps and lectures, by discussions and debates, and by the use of a variety of text-books, interest in this important study is sought to be awakened and maintained.

During the same term the class pursues the study of English etymology in conjunction with the history of our tongue.

Lectures on elocution are given during the first term; and letter-writing, the reproduction of lectures, composition, or declamation are exercises which are required weekly throughout the entire session.

Ancient biography constitutes the collateral reading of this class, special prominence being given to the biographies of scientific men and of men who have influenced the industries of the world.

**SOPHOMORE CLASS.**

During the second collegiate year the Sophomore class pursues the study of Rhetoric for two terms (first and second), discussing the subject of (1) style (*a*) under the various subdivisions of concord, clearness, unity, energy, and harmony in the construction of the sentence; and (*b*) the origin and use of figures; (2) they review punctuation and capitals; (3) they study



the different kinds of composition ; and (4) they acquire the principles of real, logical, verbal, and æsthetic criticism in literature:--the whole being practically applied during the third term in the preparation of addresses on industrial topics. These addresses are delivered before the Faculty and the corps of students competing for places at commencement.

Modern biography constitutes the collateral reading of this class under the same limitations as in the Freshman year.

#### JUNIOR CLASS.

In the first term, the Juniors review the etymological history of the English language and its relation to other languages, studying at the same time the history of its literature, and thus is given to the student simultaneously a knowledge of the changes through which our language has passed and the authors who illustrate the different periods.

In the second term, they study the history of universal literature, the object being to give only a bird's-eye view of this vast field.

In the third term, universal history is studied by this class, the text-book being supplemented by lectures, maps, and illustrations of various kinds.

One original address on an industrial or scientific subject is delivered before the Faculty by every member of the class each term ; and each month one extended essay on an assigned subject is read by every member before the class, and is criticised by the class and by the professor.

Collateral reading is confined to English and American classics.

#### SENIOR CLASS.

During the second term of the fourth year the members of this class study criticism five hours per week. The instruction is given by text-book, lectures, and the reading, in class, of some standard work.

Instruction in political economy (first term) and in constitutional law (six weeks of last term) is, for the present, given to the Senior class by the professor in charge of the department of English.

During the session seven extended essays on assigned subjects are read by each member before the class, and these essays are criticised by the class and by the professor. Two addresses (each) on industrial or scientific subjects are delivered before the Faculty and corps of students ; and one address (competing for a place at commencement) is delivered by each member of the class before the Faculty.

#### POST-GRADUATE CLASS.

During the first term of each year, the study of Logic or Psychology is pursued, the one alternating with the other. The remaining terms are devoted to the reading of English classics, which are reported upon monthly by means of written essays.



**DEPARTMENT OF MATHEMATICS.**

LT. HENRY C. DAVIS, 3d Artillery, U. S. A , Acting Professor.

This department embraces Pure Mathematics, Surveying, Mechanics, a limited course in Civil Engineering, and Astronomy.

Pure Mathematics includes in our course, Algebra, Geometry, Plane Trigonometry, and a brief course in Analytical Geometry.

Special attention is paid to surveying. The field notes, obtained from actual field work by the students, are used in teaching how the office or indoor work is done.

The students themselves use the instruments, make the measurements, calculate the areas and plot the work.

Leveling is also made a specialty. The students run lines, lay out side hill ditches, and calculate amount of cuttings for ditches or filling for embankments.

The department is well supplied with instruments for this work, viz: A compass, transit, theodolite, plane table and level, all of modern manufacture and with the latest improvements. In addition to the regular classroom work, the Sophomore Class has this practical out-door instruction ten hours per week for the entire third term.

The object of the Department is to fit this class for the ordinary land surveying and leveling on a farm, and to follow this up in the senior year year with an advanced course under Civil Engineering.

*The practical* is the aim of the Department.

In addition to the above, the Freshman Class has a three-months course in Book-keeping. During this time the students write up as many exercises as time will permit, thus making the course as practical as possible.

Text-Books: Peck's Manual of Algebra; Bryant and Stratton's Book-keeping; Wentworth's Geometry, Trigonometry and Surveying; Peck's Mechanics and Astronomy.

See specimen examination for admission into Freshman Class under Conditions for Admission.

For entrance into Sophomore Class students are required to pass an examination on Arithmetic, Algebra and two books of Geometry.

## DEPARTMENT OF MILITARY SCIENCE AND TACTICS.

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LT. HENRY C. DAVIS, 3rd Artillery, U. S. A., Professor.

### THEORETICAL INSTRUCTION.

JUNIOR CLASS: } Art and Science of War. (Lectures). (6 weeks).  
                       } Tactics. (Upton's Infantry). (6 weeks).

### PRACTICAL INSTRUCTION.

SOPHOMORE CLASS:—Service of the Field Piece.

ALL CLASSES:—Company and battalion drills, dress parades, guard duty, target practice, etc.

### ARMS AND AMMUNITION.

Two 3 inch field pieces and equipments.

290 rifles and infantry accoutrements.

Ball and blank cartridges for small arms, and blank cartridges for field pieces.

The military discipline, which permeates every department, is firm but not severe. It is a most effective means of obtaining good order and attention to academic and industrial as well as military duties.

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## PREPARATORY DEPARTMENT.

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DABNEY LIPSCOMB, PROFESSOR IN CHARGE.

This department is designed to furnish a thorough elementary education to young men, particularly sons of farmers, who are deprived of the advantages of a good high school near home. Also, to prepare for the Freshman Class such as desire to take the College course.

The number of students admitted into the department is determined each year by the number that can be accommodated in the dormitory in excess of those in the regular College classes.

The course of study requires only one year for its completion. Those who fail to complete it in that time will not be promoted to the Freshman class; but may, if they choose, review the course the next session.

The subjects taught are the following: English Grammar and Composition, Penmanship, Declamation, Arithmetic, Book-keeping, Algebra to Equations of the First Degree, Geography, United States History, and Agriculture.

Instruction in all these branches is as thorough and practical as the nature of the subjects will admit. Special attention is paid to composition writing

by the students, in order that thereby they may acquire a correct and ready use of the English language.

The agricultural and industrial features of Geography are prominently set forth : that is, the students are taught not only where a State or country is, its size, population, capital, and chief cities ; but also, what is of equal, if not greater importance, its natural features, soil, climate, productions, the industries of its people and their progress in civilization. The natural advantages, resources, and industries of Mississippi are made the objects of special study. The great events, distinguished names, stirring questions, and remarkable events recorded in United States History are carefully investigated. The various functions of the general and the State government are analyzed and compared. The result of such study, it is believed, can hardly be other than the development of an intelligent, patriotic spirit and proper preparation for the active and responsible duties of citizenship.

Particular stress is laid upon the business portions of Arithmetic : Percentage, Partnership, etc., preparatory to the study of Book-keeping during the last term. Book-keeping is taught through single entry only, the study being completed in the Freshman year.

During the first half of the fall term instruction in Agriculture is given by means of an elementary text-book, supplemented by occasional lectures on the subject by the Professors of Agriculture and Chemistry. Throughout the greater part of the second term, two lectures a week on practical agriculture and the selection, care and common diseases of stock are delivered before the classes by some professor or instructor specially qualified for that duty.

The department is supplied with all necessary furniture, and apparatus for illustrations is also provided.

For further information, see Conditions of Admission and Specimen Examination for Entrance into the Preparatory Department.



## Objects and History of the College.

The College owes its origin to an Act of the General Government passed in 1862, to encourage the establishment of Industrial Colleges in the States, to benefit "agriculture and the mechanic arts." This Act, among other things, provides for the "endowment, support and maintenance in each State of at least one College, where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts in such a manner as the legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes."

The status of the Agricultural Land Scrip Fund, donated by the United States Government, is as follows: The scrip representing 207,920 acres of public land was sold for about ninety cents per acre, realizing in currency \$188,928. This amount, by judicious management, was increased to \$227,150, which is now in the State Treasury, represented by twenty-year bonds, running from 1876 to 1896, bearing five per cent. interest per annum.

The Legislature, by the Act of February 28th, 1878, divided this fund equally between Alcorn University and this College, giving to each \$113,575. A subsequent Legislature authorized the sale of \$15,000 worth of the bonds to purchase lands; so that the amount now in the State Treasury to the credit of this College is \$98,575, yielding an annual income of \$4,928 75.

The Legislature of Mississippi, in accepting this endowment—a trust fund from the General Government—prescribed the following in the powers given to the Board of Trustees:

"The establishment and maintenance of a first-class institution, at which the youth of the State may acquire a common school education, and a scientific and practical knowledge of agriculture, horticulture, and the mechanic arts; also the proper growth and care of stock, without, however, excluding other scientific and classical studies, including military tactics.

"They shall regulate the course of study, rates of tuition, management of experimental farm, manner of performing labor, and the kind of labor to be performed by students."

These Acts of the General and State Government plainly define the



objects of the College. The "leading object" must be, "to benefit agriculture and the mechanics arts." Should studies be taught, other than such as relate to these interests, they are to be considered secondary, and rather as means by which to comprehend more readily the sciences underlying agriculture and the mechanic arts.

The instruction at this College must be such as to educate and direct the minds and tastes of students to agriculture, horticulture, care and growth of stock, management of farms, manner of performing labor, and to the mechanic arts. The College is not to be in the strictest sense either literary, classical, or military; but, rather, it is to be a college in which the industrial classes shall be given a general education combined with such scientific and practical knowledge as will make them familiar with the nature of the objects and forces with which they have to deal.

This necessitates that special stress should be laid on such sciences as underlie agriculture, viz., Chemistry, Botany, Geology, Zoology, Entomology, Physiology, Mechanics, Mathematics, Physics, etc. To understand these sciences properly, a very liberal culture, especially in English, is requisite. The various conditions contributing to an intelligent understanding of agriculture as a science and an art, comprehend an education as broad and liberal as that needed in mastering any profession. This education, however, must of necessity differ in kind. Students, whose education is intended to promote the interests designated in the acts, must omit some studies taught in other colleges, looking to general or special training. This education, too, is to be practical and industrial; students must not only be familiar with farms and labor, but they must also labor themselves, and in this labor find a part of their education, the object of which is to create a taste for agricultural pursuits, and to fix and preserve habits of industry.

In conformity with the acts designated, the Board of Trustees located the Agricultural and Mechanical College of Mississippi in Oktibbeha county, one and a half miles from the town of Starkville.

The College is on a permanent basis, the Legislature having made ample appropriations for everything except the Mechanical Department.

The Trustees have established a Preparatory and a Collegiate course, which will afford the youth of the State ample means of acquiring, in accordance with the law, a thoroughly elementary education, and a scientific and practical knowledge of Agriculture, together with a theoretical knowledge of the Mechanic Arts.

The large number of students in attendance each year shows that the College supplies a long-felt want to the people of the State, by giving a thoroughly practical education to its youth. It is evident that a large class of our people desire the young men of the State to combine manual labor with literary instruction; and this is a correct idea where boys are to be educated for farm life. Training of this kind should be in connection with



a farm, where industrious habits may be preserved, or where such habits may be acquired by those not having them already. Study for four years without the habit of manual labor creates a disinclination for such work, and tends to separate brain work and hand work, giving discredit to the latter.

The development of our agricultural interests necessitates that theory and practice go together in the education of the farmer. If this is true of other professions, why not with the farmer? The labor feature corresponds with the technical and expensive instruction that is given at West Point and Annapolis in the numerous drills, encampments, cruises, etc.,—with that given in the hospital and dissecting rooms of medical colleges,—in the moot courts of the law school,—in the field work of the engineer,—in the shops of the mechanic.

The instruction in the academic and scientific departments is of the highest importance, and nothing can take precedence over it. The industrial feature comes next, and with it is joined the pecuniary assistance which a student can obtain by his work. It differs from that of the old manual labor school in this: There, the important matter was to work enough to pay all expenses; the education received was of secondary consideration, compared with earning enough money to pay one's way. The boy who labors most of his time is physically too tired to accomplish much in his studies; whereas moderate labor facilitates study. It is desirable that this feature should be understood in connection with the College. It must not be thought that a boy can work his way through by his labor, and also get a first-class education. It is impossible to do both. He could not accomplish both if he had a school at his very door. A student here has many advantages; he not only gets his tuition free, provided he comes under the apportionment law, but he has an opportunity to work and pay for half his board by his own labor. At home he would still have to incur the expense of board and clothing,—an expense unavoidable in attending school under any conditions.

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## BUILDINGS AND GROUNDS.

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The College buildings are situated on both sides of the branch of the Mobile and Ohio Railroad, which extends from Artesia to Starkville, one and a half miles from the latter place. The grounds about the buildings are being rendered as attractive as possible by the laying out of drives, and the planting of grass and ornamental and shade trees.

The Academic building, 127 by 70 feet, has three stories and a basement. The upper story consists of six rooms used as class rooms by the Professors of Agriculture and Horticulture, the Instructors in the Preparatory Depart-

ment, and the Instructor in Drawing. The second story consists also of six rooms; serving as class rooms for the Professors of English and Mathematics, except one reserved for the safekeeping of the mathematical instruments. The first floor contains the College Hall, or assembly room, and the offices of the President and Secretary. In the basement the Horticultural Department has its Grafting Room and tool rooms.

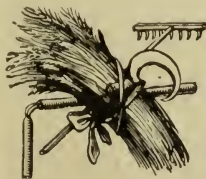
The Dormitory, 275 by 140 feet, is a three-story building capable of accommodating from two hundred to two hundred and fifty students. The first floor contains the Library, Museum, lecture room of the Professor of Biology, Commandant's Quarters, and Writing room. On the second floor are students' rooms and the guard-room and armory. The third floor consists wholly of rooms occupied by students.

The Laboratory is a two-story brick building, well ventilated, and supplied with convenient fixtures, gas and water. The lower story, consisting of seven rooms, is used for practical analytical work for the State and for the Experiment Station. The second story, consisting of five rooms, is used for class instruction.

The Mess Hall, 82 by 62 feet, is a two-story frame building. On the ground floor is a large dining hall for three hundred students; and to the rear of this, the kitchen, bakery and store-rooms used by the Steward are situated. The second floor is divided into two large halls, handsomely furnished and occupied by the Dialectic and Philotechnic literary societies respectively.

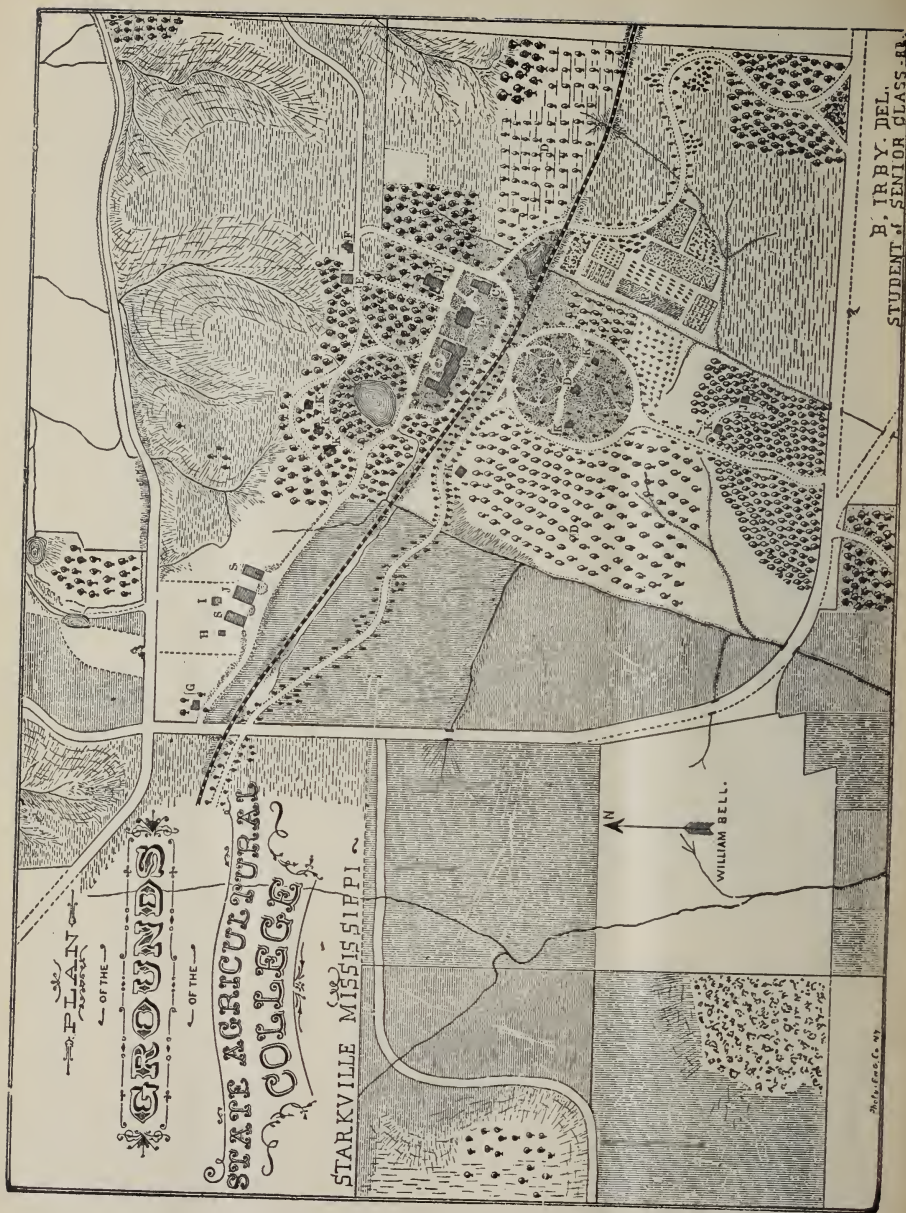
The Hospital is a one-story frame building, containing four large and four small rooms.

Besides these, there are residences for the President, Professors of Biology, Agriculture, Chemistry, English, Mathematics, and Horticulture, Secretary, Surgeon, and Steward.



EXPLANATION  
TO MAP.

- A—College Hall.  
B—Dormitory.  
C—Laboratory.  
D—Mess Hall.  
E—Hospital.  
F—Steward's Cottage.  
G—Farm House  
H—Dairy.  
I—Engine House.  
J—Barn.  
K—Professor's Houses.  
L—President's Mansion.  
O—Orchards.  
P—Vegetable Garden.  
S } Stables for Cows.





## MISCELLANEOUS.

### ADDRESSES, DECLAMATIONN, CRITICISMS.

The Student Body assembles every Saturday at 9:30 A. M., to listen to lectures delivered by some member of the Faculty of Instruction, or to addresses, declamations, and criticisms from the College classes. These exercises are frequently varied by addresses from distinguished gentlemen delivered before the corps of students by invitation of the Faculty.

### RELIGIOUS EXERCISES.

The daily duties are opened with prayers in the Chapel—Faculty and students being required to be present. On Sunday morning students can attend any church in the town of Starkville.

Every Sunday afternoon religious exercises will be held in the College Chapel, at which all students must be present. These exercises are conducted, in turn, by the pastors of the different churches in the town of Starkville and vicinity.

### YOUNG MEN'S CHRISTIAN ASSOCIATION.

Besides the regular religious exercises in the College, a devotional service is held every Wednesday night and Sunday afternoon by the Young Men's Christian Association. This Association was organized in the fall of 1882, and has been in successful operation since that time. Its object is to promote the cause of Christianity among the students, by enlisting them in active Christian work.

All services are conducted by members of the Association. The officers for the present year are as follows :

|                               |                 |
|-------------------------------|-----------------|
| PRESIDENT .....               | J. F. BOYDSTUN. |
| VICE-PRESIDENT .....          | B. W. STONE.    |
| RECORDING SECRETARY .....     | C BRIDGES.      |
| CORRESPONDING SECRETARY ..... | C. B. GARNER.   |
| TREASURER .....               | SAM MONTGOMERY. |

### SOCIETIES.

Two Literary Societies, the Philotechnic and Dialectic, furnish a valuable supplement to the academic work of the College. They are supported entirely by the students, who take great interest in them, about two-thirds of

the students being usually on the rolls. Their meetings are held weekly, on Friday evening, always open to visitors. Their exercises, which consist of debates, declamation and occasional essays, are well fitted to give students the practical acquaintance with parliamentary usage and the tactics of debate, and the ease and readiness in public speaking, so useful in every walk of life.

Each Society has made the beginning of a library for the use of its members, which will be added to from time to time as their means admit.

The *College Reflector*, published monthly by the Literary Societies, is devoted to educational, literary and industrial topics. It will endeavor to give an accurate account of the workings of the College in its various departments. Though designed primarily to encourage composition writing on the part of Society members, space will be given for the publication of public lectures by members of the Faculty and others and the orations and essays of students. It is controlled and edited by students of the College. Price seventy-five cents per scholastic year, sample copy free. Address all communications to G. L. Donald, Jr., Manager, Agricultural College, Miss.

#### THE LIBRARY.

The Library, with the additions made during the present year, contains 2,949 volumes, and affords some facilities for scientific research.

The Reading-room affords a comfortable place where students can assemble and read the periodicals, papers, and books obtained from the Library.

The tables have the following State papers which are generously sent for the use of the Reading-room: Southern Reporter, Greenville Times, Signal-Copiah, Clarion-Ledger, Sea-Coast Beacon, Columbus Index, East Mississippi Times, Lexington Advertiser, Meridian Weekly News, Southern Live-Stock Journal, Winston Signal, Yazoo City Herald, Aberdeen Weekly, Aberdeen Examiner, Vicksburg Herald, Vicksburg Evening Post, Corinth Herald, Holly Springs Reporter, Free South, New South, Baptist Record.

Leading papers from different cities of the Union are also on the tables, with magazines, reviews, etc.

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#### HEALTH.

The College buildings are on a series of variously shaped hills, 422.4 feet above the sea level, gently sloping and drained in every direction, remote from marshes, and having the requisites for promoting vigorous health. With an average attendance of over three hundred students per session only *one* death has occurred among them in the last *five* years.



## ❖ AGRICULTURAL EXPERIMENT ❖

### STATION.

#### GOVERNING BOARD.

GEN. S. D. LEE ..... President A. & M. College.  
 HON. W. B. MONTGOMERY ..... Local Trustee A. & M. College.  
 S. M. TRACY ..... Director.

#### WORKING FORCE.

S. M. TRACY, M. S. .... Director.  
 B. IRBY, M. S. .... Agriculturist.  
 E. R. LLOYD, M. S. .... Assistant Agriculturist.  
 A. B. MCKAY, B. S. .... Horticulturist.  
 D. L. PHARES, M. D. .... Veterinarian.  
 W. L. HUTCHINSON, B. S. .... Chemist.  
 L. G. PATTERSON ..... Assistant Chemist.  
 T. F. WATSON ..... Treasurer.

By an Act of Congress approved March 2, 1887, provision was made for the establishment of an Agricultural Experiment Station in each State and Territory, and on January 30, 1888, an additional Act was passed providing funds for the necessary expenses of the Stations. On January 27, 1888, the State Legislature of Mississippi accepted this grant on behalf of the State and located the Mississippi Station at the Agricultural College.

The Act of Congress making provision for the establishment of the Station says:

“Section 2. That it shall be the duty and object of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants, the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having

due regard to the varying conditions and needs of the respective States or Territories

It is the intention of the Governing Board to make the work of the Station entirely practical, so as to bring its results within the reach of every farmer in the State. Special attention will be given to ascertaining the best methods for restoring fertility to exhausted soils, to the comparative advantages of different crop rotations, to improved dairy methods, to the value of new varieties of plants for cultivation in this climate, to the introduction of new species of grasses and forage plants, and to the best methods for destroying injurious insects and fungi. Specimens of plants or insects for identification, samples of agricultural products, plants showing the effects of disease, and any other objects of general interest may be sent to the station for examination. Such articles intended for examination should be plainly marked with the name and address of the sender, and be sent, EXPRESS CHARGES PREPAID, to

DIRECTOR OF EXPERIMENT STATION,  
Starkville, Miss.

Letters and mail packages should be addressed to

DIRECTOR OF EXPERIMENT STATION,  
Agricultural College, Miss.

Bulletins or reports of work done at the Station will be published at least once in three months, and at the end of each year a full annual report will be issued. These bulletins and reports will be mailed free to all residents of the State who apply for them, and who are actually engaged in farming, as far as the means of the Station will permit.





## Calendar for 1889-90.

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|----------------------------------------------|--------------------|
| Session begins.....                          | September 18, 1889 |
| Second Term begins.....                      | January 1, 1890    |
| Third    "    " .....                        | March 24, 1890     |
| Commencement Sermon .....                    | June 15, 1890      |
| Annual Address and delivery of Diplomas..... | June 18, 1890      |



























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